

Box List: Icko Iben, Jr. Papers, 1950-2006
Astronomy Department, UIUC
ID: 15/3/27

Arrangement:

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Series 2: Correspondence, 1950-2010
Series 3: Teaching Materials, 1958-1998
Series 4: Research and Professional Engagement, 1958-2006
Series 5: Talks, Lectures, and Conferences, 1960-2003
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Series 1: Personal and Administrative, 1950-1999

This series contains Iben's thesis and related research; CVs and activity reports; a photograph of Iben; personal writings; meeting with Dean Humphreys and faculty meeting on Prairie Observatory; salary correspondence and budgets; and grant proposals, correspondence, and reports. This series is arranged chronologically.

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3. Iben's Ph.D. Thesis: "Part 1. Higher Order Effects in Beta Decay. Part 2. The Beta-Gamma Correlation and Time Reversal Invariance," 1958
4. Iben photograph, c. 1960s
5. Employment, 1960
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7. Williams College ionization calculations, request for NSF funds, 1960
8. MIT Proposal, 1964
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12. National Science Foundation grant proposal and reports, 1970-1971
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14. Dean Humphreys meeting, 2/17/80
15. Faculty meeting re Prairie and URO, March 1980
16. Iben NSF reviews & reply, 1981
17. NSF, 81-84
18. Negatives from administration, 1982
19. Salary concerns, 1982
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10. Grants, reports, letter to Dean Bright, 1989
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12. Swan Song – outline: Icko Iben, Jr. A Personal History in Astronomy, 1999

Series 2: Correspondence, 1950-2010

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10. Young Clusters – I² & talks, 1965
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4. Correspondence – I. Iben, Jr. 1966-1969
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7. One-way correspondence with Faulkner, 1967
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7. Eggen – NAS, 1989
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9. Merger paper & ref's rept. 1989
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6. XMBs/refs, 1994-1995
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8. Paper II Ritossa, G-B, & I, 1995
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13. Degenerate dwarf stars, 1996
14. Garcia-Berro, Ritossa, Iben – Elba, 1996
15. ITF – LMXBs & ISW correspondence, 1996
16. ISW correspondence & notes, 1996
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8. Correspondence & notes Rumansary paper, '97
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10. Correspondence the ck-alpha reaction, 2002
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Series 3: Teaching Materials, 1958-1998

This series contains class lectures and notes; problems sets; and exams from Cal Tech, MIT, and the University of Illinois. This series is arranged chronologically.

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6. Relativity and Hydro – Astronomy 424, c. 1960s
7. Star course graphs etc. c. 1960s
8. Student discussion of star cluster statistics, c. 1960s
9. Physics 8 final examination, May 19, 1960
10. Physics 509 – midterm examination, November 8, 1960
11. Physics S-6, 1960
12. Possibilities for pub. 1960
13. Physics 509 final examination, January 24, 1961
14. Physics H 352 lectures, 1961
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16. Physics S-6 take-home exam, 1961
17. 8.481, 1964

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2. 8.482 problems, 1964
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6. Some problem solutions S.S. & E.S. – Abraham? 1965
7. Astrophysics curriculum, 1965-1966
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12. Tables for nuclear reactions, 1966
13. MIT physics general examination, April 1967
14. 8.72 problem sets & quizzes, 1967
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17. Astrophysics seminar 8.482, 1968 spring
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1. Star course – order of magnitude, 1972
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8. Complete problem sets Stellar Evolution, c. 1980s
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Series 4: Research and Professional Engagement, 1958-2006

This series contains research notes and equations; graphs, figures, and data; and publication notes and drafts. This includes works with research partners such as Tutukov, Eggen, Ehrman, Faulkner, Fujimoto, Renzini, Rood, Simoda, Tuggle, Weideman, and Jordan. Some topics include: cepheids, Hyades superclusters, red giants, globular clusters, horizontal branch, helium dwarfs, metal poor stars, and solar neutrinos. This series is arranged alphabetically.

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7. Astronomical data, nuclear data, 1961
8. Astrophysics and envelopes, 1961
9. B²FH after 40 years
10. Beta decay reactions, notes 2002
11. Beta processes notes, c. 2000s
12. Big Picture Diagrams, c. 1980s-1990s
13. Blue Stragglers, 1986-1987
14. Bolometric corrections, Te, B-V, etc. c. 1960s
15. Boston paper, c. 1960s
16. Boston paper – abstract for Boston paper, April 1962
17. Bound electrons and nuclear reactions, c. 1960s
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21. Cepheids and supernovae graphs, c. 1970s
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10. Cox opacity – preliminary for Cox Opacities, 1961-1962
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6. Electron equations – Eqn of state & neutrinos, 1972
7. Energy gen. 1962-1963
8. Energy generation and energy flow in M.M.S. stars, 1960
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16. FG Sage – Iben & Livio, 1992
17. Fitting H-R & M-L, c. 1960s
18. Fowler, William, 1987-1988
19. Fujimoto – He shell burning – Fujimoto & Iben, 1991
20. Fujimoto, Iben, MacDonald CV Evolution, 1992
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7. Funny referee reports and author rebuttals summer 1968 solar and stuff
8. Giant molecular clouds, 1992
9. Globular Cluster Stars, 1982
10. Globular clusters, 1971
11. Globular clusters – TRG/THB, 1968
12. Gravity – PASP article on grav. cont. due Dec. 15, 1987
13. Hayashi – v losses, 1961-1964
14. He accretion paper quasistatic calculations, 1989
15. Helium-burning reactions notes, 1964-2002
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9. IBM system/360 Reference Data, undated
10. Ions in Stellar Plasmas, 1969
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8. LMXB & HMXB notes – x-ray papers-comments, 1994
9. M15 glossies for M15 paper, 1968
10. MacDonald & Iben II, 1986 February
11. Machos, 1994
12. Mass transfer in binaries, 1978
13. Massive Stars – “vivid,” 1963
14. McGetchin – Gerlogg reprints, 1970
15. Mergers, 1989
16. Metal Poor Stars I glossies, c. 1970s
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2. Metal Poor Stars – glossies for solar neutrinos & metal poor I, II, etc. Nature (Iben & Rood), Dec. 1969
3. Metal Poor Stars II – Rood, c. 1970s
4. Metal Poor Stars – diagrams for metal poor stars III, 1969
5. Metal Poor Stars V, c. 1970s
6. Middle Main Sequence stars, 1961
7. Misc. on Massive Stars, 1962
8. MIT miscellaneous, 1966-1967
9. Monsters, 1963
10. Monster Stars Fowler, Dyson, Feynman, 1962-1963
11. Monster Stars – relativistic eqns for monster stars, 1963
12. Morrison, 1966
13. M.S. & observatories paper, 1963
14. M.S. – pictures for M.S. papers, c. 1960s
15. NASA Phys Council, 1969
16. Nature on Y_c , t_c , 1969

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1. Neil Divine's He stars, 1969
2. Neutrino – Chapter 14 current-current weak interaction & associated neutrino losses notes, 2005
3. Neutrino – glossy for neutrino & correction, 1969

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8. Note on O.S. Wilson's method, 1960
9. Nuclear reaction rates, 1963
10. Nuclear reaction rates – miscellaneous on reaction rates, etc. 1964
11. NY Nov 1963
12. Oct, 1962
13. Odds and Ends research notes, c. 1980s-1990s
14. Opacities and $^{13}\text{C}(d,n)^{16}\text{O}$ Clayton, Rogers, 1992
15. Orbits book notes, 2002

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1. Paper II, c. 1964
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3. Paper III xeroxes, 1965
4. Paper VI – rough, c. 1960s
5. Paper VII, 1966
6. Physics reports, 1994
7. Piersanti -2 notes on article, 1999
8. Piersanti, Gagliardi, Iben, & Tornambe WD Mergers with Rotation II, 2003
9. Pop II stars, c. 1960
10. Pulsars – kinematics of pulsars runaway OB stars & x-ray binaries, 1996
11. Pulsars – velocities of pulsars, 1995
12. Pulsation – Obese theory, 1971
13. Pulsation – W Cen pulsation stuff, 1959-1971

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1. Pulsations notes, 1970
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3. Rcr8 – early version, 1995
4. Red Giants, 1992-1996
5. Red Giant algorithm, c. 1970s
6. Red Giants – glossies for Low Mass Red Giants & Electron Conduction, 1968-1969
7. Red Giants – graphs for conduction & red giant paper, c. 1970
8. Red Giants – Low Mass Red Giants, c. 1960s
9. Red Giants – orig. figs – Dec 1992
10. Red Giant paper, 92/93
11. Red Giants – screening, 1968-1969
12. Red Giants – screening, 1968-1969
13. Relaxation eqns for $\text{Li}=\text{Li}=0$
14. Renzini – Iben and Renzini ARAA, 1982

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1. Renzini – Iben and Renzini ARAA, 1981-1985
2. Renzini – Iben and Renzini – Phys Rep. 1981

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3. Research notes, 1986-1987
4. Research notes DDE's, 1985-1987
5. "Role of the Computer in Astrophysics" notes, correspondence draft, chapter for Taub, 1968
6. Rood and Iben figures, c. 1970
7. Rood and Iben paper Nature M15 paper, c. 1960s
8. Rood, Iben, Simoda – glossies M.P. – III, fall 1969
9. Roods' table & curves, c. 1970
10. Rood's Thesis, c. 1970s
11. Rotation, 1965
12. RR Lyrae – analysis of RR Lyrae pulsations, 1970
13. RR Lyrae and Cepheids- transition lane stuff, 1966
14. RR Lyrae notes and graphs, c. 1960s
15. RR Lyrae period changes, c. 1960s
16. Rutgers, 1994
17. Sagb 10.5 computing runs, 1996-1998
18. Schönberner – HD 128220, 1990-1991
19. Sci Ann glossies, etc. 1969-1970
20. Sci Ann initial stuff, 1969

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1. Science Article, 1966
2. Science Article, 1966
3. Science Article, c. 1960s
4. Shell Halving Algorithm notes, 1967
5. Simoda, 1969-1970
6. Simoda & Iben, 1970
7. Simoda & Iben glossies, c. 1960s
8. Sins Reports, 1964
9. Snyder, Lew, 1997-2006
10. Snyder/NAS, 1999
11. Solar Neutrinos, 1969-1970
12. Solar Neutrinos – Be⁷ bound-electron capture, 1966-1967
13. Solar Neutrinos – Convective Cores and Solar Neutrinos fluxes, 1968
14. Solar Neutrino fluxes, 1962-1963

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1. Solar Neutrinos – MSW & Neutrinos notes, 1986
2. Solar Neutrinos – neutrino stuff, 1969
3. Solar Neutrinos notes, 1986/7
4. Solar Neutrinos – original graphs for solar neutrino paper, c. 1960s
5. Solar Neutrino stuff, fall 1968
6. Solar Neutrinos – SN type II's! 1969-1972
7. Solar Neutrinos – Solar Panel, 1969-1970
8. Solar V's, 1968
9. Solar V's – extracts for solar v's, 1968
10. Solar V glossies Ann Phys, 1969

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11. Soliloquy, 1965-1967
12. Space center proposal, 1965
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14. Star bursts, blue stragglers, & binary stars in local superclusters notes, 1988
15. Stars -> gas -> stars? 1965

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1. Stellar element production very ancient, c. 1980s-1990s
2. Stellar evolution - $9 M_{\odot}$, c. 1960s
3. Stellar evolution studies project No: DSR 70469, c.1970s
4. Stony Brook – glossies for Chive(?) 1969 summer at Stony Brook
5. Stromlo/calculations by hand – I, 1986
6. Stromlo calcs II, 1986
7. Supernovae – ideas, 1969 summer
8. Symbiotic Stars, 2002
9. Symbiotics, 1994
10. Time constant loci, 1965
11. Time scales for energy flow a la Henry et al, notes 2002
12. Tuggle, 1972
13. Tuggle & Iben, 1972
14. Tuggle & Iben, c. 1972
15. Tuggle – Becker, Iben, and Tuggle refs report/cepheids, 1977
16. Tutukov '92 visit
17. Tutukov 1993 visit + 1994
18. Tutukov '95 visit to University of Illinois
19. Tutukov – binaries – CVs, c. 1980s
20. Tutukov – Binaries & PNe, 1987

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1. Tutukov – correspondence with Sasha, Tornambe, 1985-1986
2. Tutukov/Garcia Berro/Ritossa, 1996 visits
3. Tutukov – Iben '89 originals
4. Tutukov – Iben '93a – original figures, 1993
5. Tutukov – Iben 93a Tables, 1993
6. Tutukov – Iben 93 – stuff omitted, 1993
7. Tutukov – Iben '94 – He-accreting WDs-Sne? SSXRS? 1994
8. Tutukov – Iben – accreting WDs, 1988
9. Tutukov – Iben book text, c. 1980s
10. Tutukov – Iben Double PNNi – Mexico, 1987
11. Tutukov – Iben SN CO WD & He donor, 1994
12. Tutukov – Iben – Texas – PMTs, c. 1980s
13. Tutukov – Iben – WD mergers, 1987
14. Tutukov – nova-like RV in M31 – Rich, 1991
15. Tutukov – RV in M31, 1991-1992
16. Tutukov – Triple Stars, 1998
17. Tutukov – Triple Stars – appendix, 1998

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18. Tutukov, Yungelson, Iben, c. 1991
19. Tutukov, Yungelson, Iben – double degenerates, 1996
20. Tutukov, Yungelson, Iben – double degenerates TYI 97, 1996
21. Tutukov, Yungelson, Iben – notes for ITY93, 1993-1994
22. Tutukov, Yungelson, Iben – supernova frequencies TYI – 1991

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1. Turbulence spring & summer '62
2. University of Illinois digital computer/data, 1961
3. USco, 1989-1992
4. VAD with H₂ included, 1961
5. Webbink & Iben II, 1988
6. Weidemann, Jordan – Hyades, c. 1990s
7. Weidemann, Jordan – Hyades, additional material, 1987-1990
8. Weidemann, Jordan – Hyades, missing WD's, 1975-1990
9. Weidemann, Jordan – Hyades paper, 1991-1992
10. Weidemann, Jordan – Hyades supercluster, 1991
11. Weidemann, Jordan – Hyades supercluster, additional material, 1988-1991
12. Weidemann-Kiel, 1990
13. White Dwarfs – Laughlin, 1988
14. White Dwarfs – with Laughlin, 1986-1988
15. Williams College c. 1960s
16. Williams College – unlabeled notes, c. 1958-1961
17. Williams learning Astro by myself at Williams, c. 1958-1961
18. Williams teaching stellar interior physics to myself at Williams, c. 1958-1961

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1. Woosley – SNI 1/2, c. 1980s
2. Writing commitments, 1989-1990

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This series contains talk, lecture, and seminar outlines, abstracts, and transcripts; as well as conference schedules, correspondence, and notes. This series is arranged chronologically.

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3. Remnants of Williams College fac. Talk, c. 1960s
4. Sins Seminar with Michel faculty table, c. 1960s
5. Energy generation and energy flow in M.M.S. Stars colloquium talk, c. 1960s
6. Yerkes and Harvard talks, c. 1960s
7. Kellog Seminar Iben – 1961 – 1 day notice
8. Stellar Structure and Evolution, 1961
9. Program of the One Hundred-Twelfth Meeting of the American Astronomical Society, December 27-29, 1962
10. Boston Talk / Tucson Talk, 1963
11. NASA Talk, Nov. 1963

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13. MIT Talk, 1964
14. Texas '64 Conf. on Rel. Astro
15. Compass Seminars, 1964-1966
16. NASA Nucleosynthesis Conf – Jan 1965
17. MIT Physics Colloq. also Brandeis, 1965 Jan 7
18. Berkeley 12/66
19. Seventh Eastern Theoretical Physics Conference at The University of Massachusetts Amherst, October 18-19, 1968
20. Amherst – Dartmouth talks, 1969
21. Boulder 1969 Abstract American Physical Society meeting
22. Boulder APS talk, 1969
23. Solar v Talk, 1969

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1. Stony Brook Third Summer Institute for Astronomy & Astrophysics, June-July, 1969
2. Members of Solar Panel of Astronomy Survey Committee, c. 1970s
3. Rice Talk, c. 1970s
4. Toronto – talk 1, c. 1970s
5. Toronto – talk 2, c. 1970s
6. 1970 “Engagements”
7. AAS Boulder – June 1970 talk on Globular Clusters
8. Church talk, 1970
9. 1970 IAU
10. IAU, 1970
11. New York Academy and Columbia, 1970
12. Stony Brook, Dec. 1970
13. Charlottesville Fall '71
14. Sins Talk 1/12/71
15. Toronto – Talk 3, 1971
16. University of Toronto-June Institute on Modern Astrophysics, 1971
17. 1971-72 talks
18. Cambridge (1978) – “Weirdos”
19. Stellar Instabilities – Montreal, 78
20. Ba & CH Stars in Binaries, c. 1980s
21. Binary Star – Hodgepodge Evolution, c. 1980s
22. Binary WDs & GWR Santa Barbara, c. 1980s
23. Close Binaries / Common Envelope Evolution, c. 1980s
24. Close Binary Evolution A Hodgepodge, c. 1980s
25. Close Binary Evolution Mass Transfer & Ang. Mom. Loss, c. 1980s
26. Convective Dredge – up in AGB Stars – with eqs. c. 1980s
27. Gravitational wave properties of close WDs, c. 1980s
28. Introduction to Close Binaries, c. 1980s
29. Mixing in Accreting White Dwarfs & Novae Composition Abano-Terme talk, c. 1980s

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31. SNeIa, c. 1980s
32. SNeIa Scenarios Spain, c. 1980s
33. SNIa – New Orleans, c. 1980s

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1. Solar v talk, c. 1980s
2. S-process in H-accreting WDs? C. 1980s
3. URCA in accreting co white dwarf, c. 1980s
4. AGB evolution planetary nebula formation., c. 1980s-1990s
5. Calgary – He shell flashes, c. 1980s-1990s
6. Ringberg Talk SUI, c. 1980s-1990s
7. TP AGB & s-Process C&M star distribution, c. 1980s-1990s
8. Trieste – mass loss on AGB & C star formation, c. 1980s-1990s
9. Dredge Up, s-process SNeIa (~1980) Chile
10. Red Giants – Erice (1980)
11. CTIO – Chile, Nov. '81
12. Pulsation – Crimea (~1982)
13. Washington, DC (1982) AGB & C Stars
14. Z=0 stars, Vulcano (1982)
15. AGB – Geneva (1983) C star calcs.
16. Double Deg Scenario for SNeIa Erice (1983)
17. Darwin Lecture (84)
18. Erice: An Essay on SNI Precursors, 1984 OVERSIZE
19. Webbink – Iben, 1984-1987

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1. Cameron's Birthday IaSNe talk ('85)
2. NAS inauguration lecture 1985 binary star evolution
3. Ringberg summary talk (1985)
4. Munich, May '85 talk ¹³C & Dredge-up
5. Binary Star Evolution II – Canberra (1986)
6. Blue Stragglers Rome (1986)
7. Canberra '86 SNeIa
8. Galaxy, 1986
9. SNeIa – Cornell (1986)
10. SNIa Talks (1986)
11. Type Ia – Canberra ('86)
12. Spring '87 Colloquia
13. Physics Colloquium prep – SN 87A, 1987
14. Cerro Tololo – Jan '87
15. SN87A U. of IU (3/12/87)
16. Aspen – May '87
17. Tucson-Faint Blue Stars 6/87
18. Meetings upcoming, 1987-1988
19. Blue Stragglers CTIO Birthday, 1988

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20. Cerro Tololo 25th birthday AGB & c-stars, 1988
21. CS-870 Baltimore, 1988
22. Indiana Talk PNN composition, 1988
23. Strongnen ('88) & Georgia Tech AGB stars, nucleosynthesis & dredge-up
24. AGB structure, dredge-up, neutron sources Druzba, 1989
25. Close binary evolution U. of Penn, 1989
26. CO WD & He WD Mergers Moscow talk, 1989

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1. Helium CVs – Santa Fe, 1989
2. Diffusion in accreting WDs Japan, 1989 fall
3. Kinematics of several types of evolved close binaries Iben & Tutukov – Texas, 1989
4. STSI (89?) $M_i \rightarrow M_f$
5. 1989 – Russell Lecture talk outlines
6. Versailles (89) – Solar v's
7. Binary star evolution, c. 1990s
8. Computational requirements talk, c. 1990s
9. Globular cluster ages, c. 1990s
10. Some of Kiel talk – Born Again evolution, c. 1990s
11. Opacity talk, c. 1990s
12. Screening factors in MS stars, c. 1990s
13. St. Louis talk, c. 1990s
14. WD “cooling” talk, c. 1990s
15. Kiel ('90) Binary Star Evolution
16. Korea, Nov. 5-13, 1990
17. Nova talk, 1991-1992
18. Innsbruck talk, 1992
19. SNeIa – Hodgepodge of viewgraphs, 1992
20. Born Again stars & H-Deficient stars – proceedings of the 9th European workshop on White Dwarfs, 1994
21. SETI, 1994
22. Baumberg Talk (95) – RC&B Scenarios

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1. Popular Talk – Georgia, 1995
2. Symbiotic Stars 1995 colloquium
3. LMXBs & HMXBs, Feb. 20, 1995
4. SNIa – Iowa State 10/7/96
5. Cox Fest -97
6. Stockholm '97
7. Turkey '98 general talk
8. Belgium/Liege/1999
9. Mass transfer when donor is an AGB star – MIT /99
10. MIT /99 Asymmetrical planetary Nebulae II: From origins to Microstructures conference
11. LMXBs -> MSPs (Chicago), 2002
12. Perlmutter, 2003

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This series contains Iben's publications, as well as a publication list. This series is arranged chronologically.

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1. 1958, 1961, 1962
 - a. Iben Jr, Icko. "Higher Order Effect in the B Decay of P³²." March 1958
 - b. Iben Jr, Icko & Ehrman, John R. "The Internal Structure of Middle Main-Sequence Stars." May 1962
2. 1963
 - a. Iben Jr, Icko. "Massive Stars in Quasi-Static Equilibrium." June 1963
 - b. Iben Jr, Icko. "A Comparison between Homogenous Stellar Models and the Observations." August 15, 1963
3. 1964
 - a. Iben Jr, Icko. "Evolution through Alpha-Burning ($M = 3 \rightarrow 15 M_{\odot}$)." Abstract. October 1964
 - b. Iben Jr, Icko. "Gravitational Collapse." September 1964
4. 1965
 - a. Iben, Icko. "Stellar Evolution through Helium Burning." January 1965
 - b. Iben Jr, Icko. "Stellar Evolution I. The Approach to the Main Sequence." April 1965
 - c. Iben Jr, Icko. "Stellar Evolution. V. The Evolution of A 15 M_⊙ Star from the Main Sequence through Core Helium Burning." July 1965
 - d. Iben Jr, Icko. "Stellar Evolution. II. The Evolution of a 3 M_⊙ Star from the Main Sequence through Core Helium Burning." November 1965
5. 1966
 - a. Iben Jr, Icko. "Stellar Evolution. III. The Evolution of a 5 M_⊙ Star from the Main Sequence through Core Helium Burning." February 1966
 - b. Iben Jr, Icko. "Possible Models of Horizontal Branch Stars." April 1966
 - c. Faulkner, J. & Iben Jr, Icko. "The Evolution of Population II Stars." June 1966
 - d. Iben Jr, Icko & Talbot, Raymond J. "Stellar Formation Rates in Young Clusters." June 1966
 - e. Faulkner, John; Iben Jr, Icko; & Wilson, Olin C. "Age-Helium Correlations for Two Low-Mass Field Binary Systems." October 1966
 - f. Iben Jr, Icko. "Evolution to the Giant Phase for Low-Mass Population I Stars." Abstract. November 1966
 - g. Iben Jr, Icko. "The Early Evolution of Stars Between One and Three Solar Masses." 1966
6. 1967
 - a. Iben Jr, Icko. "Stellar Evolution: Comparison of Theory with Observation." February 1967
 - b. Iben Jr, Icko. "Stellar Evolution. VI. Evolution from the Main Sequence to the Red-Giant Branch for Stars of Mass 1 M_⊙, 1.25 M_⊙, and 1.5 M_⊙." February 1967
 - c. Iben Jr, Icko. "Stellar Evolution. VII. The Evolution of a 2.25 M_⊙ Star from the Main Sequence to the Helium-Burning Phase." February 1967
 - d. Iben Jr, Icko; Kalata, Kenneth; & Schwartz, Judah. "The Effect of Be⁷ K-Capture on the Solar Neutrino Flux." December 1967
 - e. Iben Jr, Icko. "Stellar Evolution Within and Off the Main Sequence." 1967
7. 1968
 - a. Simoda, Mahiro & Iben Jr, Icko. "Heavy-Element Abundances and the Interpretation of Globular Cluster Characteristics." May 1968

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- b. Iben Jr, Icko & Faulkner, John. "On the Age and Initial Helium Abundance of Extreme Population II Stars." July 1968
- c. Rood, Robert & Iben Jr, Icko. "On the Variation of Globular-Cluster Characteristics with Age." October 1968
- d. Iben Jr, Icko. "Age and Initial Helium Abundance of Stars in the Globular Cluster M₁₅." October 1968
- e. Iben Jr, Icko. "Solar Neutrinos and the Solar Helium Abundance." October 1968
- f. Iben Jr, Icko. "Electron Conduction in Red Giants." November 1968
- g. Iben Jr, Icko. "Low-Mass Red Giants." November 1968
- 8. 1969
 - a. Iben Jr, Icko. "Central Convection and Solar Neutrinos." 20 January 1969
 - b. Iben Jr, Icko. "Central Convection and Solar Neutrinos." February 1969
 - c. Iben Jr, Icko. "The C¹³ Solar Neutrino Experiment and the Solar Helium Abundance." August 1969
 - d. Iben Jr, Icko & Rood, Robert T. "Age and Initial Helium Abundance of Globular Cluster Stars." August 30, 1969
 - e. Iben Jr, Icko; Rood, Robert T; Strom, Karen M; & Strom, Stephen E. "Ratio of Horizontal Branch Stars to Giant Red Stars in Globular Clusters." December 6, 1969
- 9. 1970
 - a. Iben Jr, Icko & Rood, Robert T. "Metal-Poor Stars. I. Evolution from the Main Sequence to the Giant Branch." February 1970
 - b. Iben Jr, Icko. "Globular Cluster Stars." July 1970
 - c. Iben Jr, Icko & Rood, Robert T. "Metal-Poor Stars. III. On the Evolution of Horizontal-Branch Stars." August 1970
 - d. Iben Jr, Icko & Huchra, John. "On the Helium Abundance in the Envelopes of the Bluest RR Lyrae Stars in Globular Clusters." October 1970
 - e. Abraham, Zulema & Iben Jr, Icko. "The Abundance of ³He and ⁴He in the Initial Sun Implied by the Kocharov and Starbunov Assumption." November 1970
 - f. Iben Jr, Icko. "The Role of the Computer in Astrophysics." 1970
 - g. Simoda, Mahiro & Iben Jr, Icko. "Time-Constant Loci and Theoretical Luminosity Functions for Metal-Deficient Clusters." 1970
- 10. 1971
 - a. Iben Jr, Icko. "On the Specification of the Blue Edge of the RR Lyrae Instability Strip." 1971 May 15
 - b. Iben Jr, Icko & Huchra, John. "Comments on the Instability Strip for Halo Population Variables." May 24, 1971
 - c. Iben Jr, Icko. "A Conjecture Concerning the Transition Period for Variable Stars." 1971 September 1
 - d. Abraham, Zulema & Iben Jr, Icko. "More Solar Models and Neutrino Fluxes." 1971 November 15
- 11. 1972
 - a. Iben Jr, Icko & Tuggle, Roy Slaton. "On an Apparent Discrepancy Between Pulsation and Evolution Masses for Cepheids." 1972 April 1

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- b. Iben Jr, Icko. "Cepheids, Supernovae, and the $^{12}\text{C}(\alpha, \gamma) ^{16}\text{O}$ Reaction." Iben Jr, Icko. 1972 December 1
- c. Iben Jr, Icko & Tuggle, Roy Slaton. "Comments on a *PLC* Relationship for Cepheids and on the Comparison Between Pulsation and Evolution Masses for Cepheids." 1972 December 1
- d. Tuggle, Roy Slaton & Iben Jr, Icko. "On the Location of Pulsational Blue Edges and Estimates of the Luminosity and Helium Content of RR Lyrae Stars." 1972 December 1
- e. Iben, I. "Normal Stellar Evolution." 1972
- f. Iben Jr, Icko. "Horizontal-Branch and Post Horizontal-Branch Evolution." 1972
- 12. 1973
 - a. Iben Jr, Icko. "On the Abundance of Lithium in Red Giants of Intermediate Mass." 1973 October 1
 - b. Tuggle, Roy Slaton & Iben Jr, Icko. "Comments on Nodal Quenching and on Convective Quenching in RR Lyrae Stars." 1973 December 1
 - c. Whelan, John & Iben Jr, Icko. "Binaries and Supernovae of Type 1." 1973 December 15
 - d. Iben Jr, Icko. "Presupernova Evolution." 1973
- 13. 1974
 - a. Iben Jr, Icko. "Post Main Sequence Evolution of Single Stars." 1974
 - b. Iben Jr, Icko. "The Theoretical Situation." 1974
- 14. 1975
 - a. Iben Jr, Icko. "Thermal Pulses; *p*-Capture, *a*-Capture, *s*-process Nucleosynthesis; and Convective Mixing in a Star of Intermediate Mass." 1975 March 1
 - b. Iben Jr, Icko. "Neon-22 as a Neutron Source, Light Elements as Modulators, and *s*-Process Nucleosynthesis in a Thermally Pulsing Star." 1975 March 1
 - c. Iben Jr, Icko & Tuggle, Roy Slaton. "On the Intrinsic Properties of Cepheids in the Galaxy, In Andromeda, and in the Magellanic Clouds." 1985 April 1
- 15. 1976
 - a. Iben Jr, Icko. "Solar Oscillations as a Guide to Solar Structure." 1976 March 15
 - b. Lamb, Susan A; Iben Jr, Icko; & Howard, Michael. "On the Evolution of Massive Stars Through the Core Carbon-Burning Phase." 1976 July 1
 - c. Iben Jr, Icko. "Further Adventures of a Thermally Pulsing Star." 1976 August 15
 - d. Iben Jr, Icko & Mahaffy, John. "On the Sun's Acoustical Spectrum." 1976 October 1
 - e. Iben Jr, Icko. "The Astrophysicist and The Computer." 1976
- 16. 1977
 - a. Truran, James W. & Iben Jr, Icko. "On *s*-Process Nucleosynthesis in Thermally Pulsing Stars." 1977 September 15
 - b. Lamb, Susan A; Howard, Michael; Truran, James W; and Iben Jr, Icko. "Neutron-Capture Nucleosynthesis in the Helium-Burning Cores of Massive Stars." 1977 October 1
 - c. Iben Jr, Icko. "Thermal Pulse and Interpulse Properties of Intermediate-Mass Stellar Models with Carbon-Oxygen Cores of Mass 0.96, 1.16, and 1.36 M_{\odot} ." 1977 November 1
 - d. Becker, Stephen Allan; Iben Jr, Icko; & Tuggle, Roy Slaton. "On the Frequency-Period Distributions of Cepheid Variable in Galaxies in the Local Group." 1977 December 15
 - e. Iben Jr, Icko. "Stellar Structure and Evolution with Emphasis on the Evolution of Intermediate Mass Stars." 1977

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 - a. Iben Jr, Icko. "Urca Neutrino Losses under Conditions Found in the Carbon-Oxygen Cores of Intermediate-Mass Stars." 1978 January 1
 - b. Iben Jr, Icko & Truran, James W. "On the Surface Composition of Thermally Pulsing Stars of High Luminosity and on the Contribution of Such Stars to the Element Enrichment of the Interstellar Medium." 1978 March 15
 - c. Kaler, J.B; Iben Jr, Icko; & Becker, S.A. "On the Enrichment of Helium and Nitrogen in Planetary Nebulae." 1978 September 1
 - d. Iben Jr, Icko. "Thermal Oscillations During Carbon Burning in an Electron-Degenerate Stellar Core." 1978 December 15

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1. 1979
 - a. Becker, Stephen Allan & Iben Jr, Icko. "The Asymptotic Giant Branch Evolution of Intermediate-Mass Stars as a Function of Mass and Composition. I. Through the Second Dredge-Up Phase." 1989 September 15
 - b. Iben Jr, Icko. "Production of the Elements and Enrichment of the Interstellar Medium." 1979
2. 1980
 - a. Iben Jr, Icko & Truran, James W. "On the Surface Composition of Thermally Pulsing Stars of High Luminosity and on the Contribution of Such Stars to the Element Enrichment of the Interstellar Medium." 1978 March 15
 - b. Becker, Stephen Allan & Iben Jr, Icko. "The Asymptotic Giant Branch Evolution of Intermediate-Mass Stars as a Function of Mass and Composition. II. Through the First Major Thermal Pulse and the Consequences of Convective Dredge-Up." 1980 April 1
 - c. Cosner, Kenneth; Iben Jr, Icko; & Truran, James W. "The Effects of Unthermalized Isomeric State and of a Time-Varying Neutron Flux on s -Process Branching Ratios." 1980 June 1
 - d. Iben Jr, Icko. "Nucleosynthesis in Evolved Globular Clusters." 1980
3. 1981
 - a. Iben Jr, Icko. "On Intermediate-Mass Single Stars and Accreting White Dwarfs as Sources of Neutron-Rich Isotopes." 1981 February 1
 - b. Iben Jr, Icko. "The Carbon Star Mystery: Why do the Low Mass Ones Become Such, and Where Have all the High Mass Ones Gone?" 1981 May 15
 - c. Iben Jr, Icko. "On the Interior Properties of Red Giants." (and preface) 1981
 - d. Iben Jr, Icko. "The Consequences of Mass Loss from Intermediate-Mass Stars." 1981
 - e. Fujimoto, Masayuki Y; Iben Jr, Icko; & Becker, Stephen A. "Response of Low-Mass Main Sequence Stars to Accretion." 1981
4. 1982
 - a. Iben Jr, Icko & Renzini, Alvio. "Evolution of Single Stars with Emphasis on the Asymptotic Giant Branch Phase of Evolution – Current Status of the Theory and Comparison with the Observations." January 1982
 - b. Iben Jr, Icko. "More on Carbon Burning in Electron-Degenerate Matter: Within Single Stars of Intermediate Mass and Within Accreting White Dwarfs." 1982 February 1

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- c. Iben Jr, Icko. "Hot Accreting White Dwarfs in the Quasi-Static Approximation." 1982 August 1
 - d. Iben Jr, Icko & Renzini, Alvio. "The Role of Semiconvection in Bringing Carbon to the Surface of Asymptotic Giant Branch Stars of Small Core Mass." 1982 August 15
 - e. Iben Jr, Icko. "Low-Mass Asymptotic Giant Branch Evolution. I." 1982 September 15
 - f. Iben Jr, Icko & Renzini, Alvio. "On the Formation of Carbon Star Characteristics and the Production of Neutron-Rich Isotopes in Asymptotic Giant Branch Stars of Small Core Mass." 1982 December 1
5. 1983
- a. Iben Jr, Icko; Kaler, James B; Truran, James W; & Renzini, Alvio. "On the Evolution of Those Nuclei of Planetary Nebulae That Experience a Final Helium Shell Flash." 1983 January 1
 - b. Iben Jr, Icko & Tutukov, Alexander V. "The Evolution of Binaries of Moderate Primordial Mass ($< \sim 10 M_{\odot}$) and the Formation of Transient and Explosive Objects Due to Accumulation Instabilities in Such Binaries." August 1983
 - c. Iben Jr, Icko. "Carbon Star Formation and Neutron-Rich Isotope Formation in Low-Mass Asymptotic Giant Branch Stars." 1983 December 15
 - d. Iben Jr, Icko. "Fundamental Problems and Basic Tests of Stellar Evolution Theory – The Case of Carbon Stars." December 1983
 - e. Iben Jr, Icko & Renzini, Alvio. "Asymptotic Giant Branch Evolution and Beyond."
 - f. Iben Jr, Icko. "Open Questions About the Formation of Heavy Elements in 'z=0' Stars." 1983
 - g. Iben Jr, Icko. "An Essay on Stellar Oscillations and Evolution." 1983
6. 1984
- a. Iben Jr, Icko. "On the Frequency of Planetary Nuclei Powered by Helium Burning and on the Frequency of White Dwarfs with Hydrogen-Deficient Atmospheres." 1984 February 1
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