

# Carl D. Murray

## LIST OF PUBLICATIONS

### Scientific Papers:

1. "The long-term evolution of the Quadrantid meteor stream" by I.P. Williams, C.D. Murray and D.W. Hughes. *Mon. Not. R. astr. Soc.* **189**, 483–492 (1979).
2. "The orbital evolution of the Quadrantid meteor stream between AD 1830 and 2030" by D.W. Hughes, I.P. Williams and C.D. Murray. *Mon. Not. R. astr. Soc.* **189**, 493–500 (1979).
3. "The effect of orbital evolution on the influx of Quadrantid meteoroids" by C.D. Murray, D.W. Hughes and I.P. Williams. *Mon. Not. R. astr. Soc.* **190**, 733–742 (1980).
4. "The Quadrantid meteor stream: past, present and future" by D.W. Hughes, I.P. Williams and C.D. Murray. In *Solid Particles in the Solar System* (I. Halliday and B.A. McIntosh, Eds) 153–156 (Reidel, 1980).
5. "The narrow rings of Jupiter, Saturn and Uranus" by S.F. Dermott, C.D. Murray and A.T. Sinclair. *Nature* **284**, 309–313 (1980).
6. "Origin of the eccentricity gradient and apse alignment of the  $\epsilon$  ring of Uranus" by S.F. Dermott and C.D. Murray. *Icarus* **43**, 338–349 (1980).
7. "Resonant structure of the asteroid belt" by S.F. Dermott and C.D. Murray. *Nature* **290**, 664–668 (1981).
8. "The dynamics of tadpole and horseshoe orbits. I. Theory" by S.F. Dermott and C.D. Murray. *Icarus* **48**, 1–11 (1981).
9. "The dynamics of tadpole and horseshoe orbits. II. The coorbital satellites of Saturn" by S.F. Dermott and C.D. Murray. *Icarus* **48**, 12–22 (1981).
10. "Nodal regression of the Quadrantid meteor stream: An analytic approach" by C.D. Murray. *Icarus* **49**, 125–134 (1981).
11. "Asteroid rotation rates depend on diameter and type" by S.F. Dermott and C.D. Murray. *Nature* **296**, 418–421 (1982).
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13. "Nature of the Kirkwood gaps in the asteroid belt" by S.F. Dermott and C.D. Murray. *Nature* **301**, 201–205 (1983).
14. "Asteroid rotation rates" by S.F. Dermott, A.W. Harris and C.D. Murray. *Icarus* **57**, 14–34 (1984).
15. "Structure of the 3:1 jovian resonance: A comparison of numerical methods" by C.D. Murray and K. Fox. *Icarus* **59**, 221–233 (1984).

16. "Distribution and evolution of asteroid rotation rates" by S.F. Dermott and C.D. Murray. *Phil. Trans. R. Soc. London A* **313**, 157–164 (1984).
17. "The asteroid ring" by S.F. Dermott and C.D. Murray. In *Planetary Rings* (A. Brahic, Ed.) 695–701 (Cepadues, 1984).
18. "Variation of the UBV colors of S-class asteroids with semimajor axis and diameter" by S.F. Dermott, J. Gradie and C.D. Murray. *Icarus* **62**, 289–297 (1985).
19. "A note on Le Verrier's expansion of the disturbing function" by C.D. Murray. *Celest. Mech.* **36**, 163–164 (1985).
20. "The Hilda group and the Hecuba gap" by A. Milani, C.D. Murray and A.M. Nobili. In *Asteroids, Comets, Meteors II* (C.-I. Lagerkvist and H. Rickman, Eds) 147–151 (Uppsala University Press, Uppsala, 1986).
21. "The structure of the 2:1 and 3:2 jovian resonances" by C.D. Murray. *Icarus* **65**, 70–82 (1986).
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23. "Dynamics of the uranian and saturnian satellite systems: A chaotic route to melting Miranda?" by S.F. Dermott, R. Malhotra and C.D. Murray. *Icarus* **76**, 295–334 (1988).
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25. "The dust rings of Uranus: A picture is worth a million words" by C.D. Murray and R.P. Thompson. *Vistas in Astron.* **32**, 225–234 (1988).
26. "Secular perturbations of the uranian satellites: Theory and practice" by R. Malhotra, K. Fox, C.D. Murray and P.D. Nicholson. *Astron. & Astrophys.* **221**, 348–358 (1989).
27. "Structure of the uranian rings" by C.D. Murray and R.P. Thompson. In *Dynamics of Astrophysical Disks* (J. Sellwood, Ed) 17–18 (Cambridge University Press, 1989).
28. "Astrometric observations of Neptune and Triton obtained in 1988 and comparison with theory" by D.B. Taylor, D.H.P. Jones, L.V. Morrison, C.D. Murray and I.P. Williams. *Astron. & Astrophys.* **232**, 565–569 (1990).
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35. "Atlas of the planar, circular, restricted three-body problem. I. Internal orbits" by O.C. Winter and C.D. Murray. (pp 397). *QMW Maths Notes*, No.16, (1994).
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39. "Disturbing function expansions" by D. Harper and C.D. Murray. *Maple Technical Newsletter*, Special issue, December 1994, 24–28. (1994).
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47. "Overlap of ORS ring requirements in Cassini tours" by C.D. Murray. Report presented to Cassini ISS Rings Working Group, LPL, 21 October 1996.

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49. "CCD astrometry of Saturn's satellites 1990–1994" by D. Harper, C.D. Murray, K. Beurle, I.P. Williams, D.H.P. Jones, D.B. Taylor and S.C. Greaves. *Astron. Astrophys. Suppl. Ser.* **121**, 65–69 (1997).
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51. "Resonance and chaos. I. First order interior resonances" by O.C. Winter and C.D. Murray. *Astron. Astrophys.* **319**, 290–304 (1997).
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54. "Resonance and chaos. II. Exterior resonances and asymmetric libration" by O.C. Winter and C.D. Murray. *Astron. Astrophys.* **328**, 399–408 (1997).
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72. “Saturn’s rings: Pre-Cassini status and mission goals” by J.N. Cuzzi, J.E. Colwell, L.W. Esposito, C.C. Porco, C.D. Murray, P.D. Nicholson, L.J. Spilker, E.A. Marouf, R.G. French, N. Rappaport, Muhleman, D. *Sp. Sci. Rev.* **104**, 209–251 (2002).
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75. “Cassini imaging of Jupiter’s atmosphere, satellites and rings” by C.C. Porco, R.A. West, A. McEwen, A.D. Del Genio, A.P. Ingersoll, P. Thomas, S. Squyres, L. Dones, C.D. Murray, T.V. Johnson, J.A. Burns, A. Brahic, G. Neukum, J. Veverka, J.M. Barbara, T. Denk, M. Evans, J.J. Ferrier, P. Geissler, P. Helfenstein, T. Roatsch, H. Throop, M. Tiscareno, A. Vasavada. *Science* **299**, 1541–1547 (2003).
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