

Curriculum Vitae - Carsten Dominik

October 27, 2011

Personal

Name Carsten Dominik
Born September 11, 1961 in Berlin, Germany
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PhD Thesis and Habilitation

1992 PhD thesis at the Faculty of Physics
of the Technical University Berlin with the thesis entitled
Dust formation in stellar winds.
The thesis received a judgment *summa cum laude*.
2002 Habilitation at the Faculty of Natural Sciences
of the Technical University Berlin with the thesis entitled
Views on the cosmic dust cycle.

Appointments

2009	to date	Universitair Hoofddocent (tenured) Anton Pannekoek Institute University of Amsterdam
2006	to date	Bijzonder Hoogleraar (Special Professor) Department of Astrophysics Radboud University Nijmegen
2005	– 2009	Universitair Docent (tenured) Anton Pannekoek Institute University of Amsterdam
2002	– 2005	Universitair Docent (5 year appointment) Anton Pannekoek Institute University of Amsterdam
1999	– 2002	Post Doctoral Fellow Anton Pannekoek Institute University of Amsterdam
1995	– 1999	Post Doctoral Fellow Stichting Nederlands Wetenschappelijk Onderzoek and ASTRON Sterrewacht Leiden University of Leiden
1993	– 1995	Research Associate National Research Council (NRC) NASA Ames Research Center in Mountain View, California, USA.

Membership of Learned Societies

Member, International Astronomical Union (IAU)
Member, Nederlands Astronomenclub (NAC)
Member, Astronomische Gesellschaft (AG)

Membership of International and National Committees

2009	– 2011	Member, NWO Vernieuwingsimpuls VIDI Beoordelingscommissie
2007	– 2008	Member, NWO Rubicon Beoordelingscommissie
2003	– 2006	Member, NWO Vernieuwingsimpuls VENI Beoordelingscommissie
2002	– 2003	Member, Nationale Lerarendag Commissie

Membership of International Consortia

2005	to date	Co-PI, SPHERE Consortium, building a VLT second generation instrument for the direct detection of extra-solar planets. Co-I until 2009, then Dutch Co-PI
2008	to date	Co-I Stellar Disk Evolution keyprogram (Olofsson et al) for HERSCHEL
2005	to date	Co-I DIGIT keyprogram for HERSCHEL
2005	to date	Co-I HIFISTARS keyprogram for HERSCHEL
2005	to date	Co-I for the HERSCHEL/HIFI WISH key program (<i>Water in Star Forming Regions</i> , van Dishoeck et al)
2005	to date	Co-I and sub-coordinator for the HERSCHEL/HIFI program key program CHESS (Chemical Herschel Spectral Surveys, Ceccarelli et al)
2003	– 2005	Member, CHEOPS Consortium, studying a VLT second generation instrument for the direct detection of extra-solar planets
1995	– 1999	Member, HJHVEGA consortium, a program observing debris disks with the Infrared Satellite Observatory ISO

Funding

2011		CO-I (with Rens Waters) of FP7 program <i>DISCANALYSIS Analysis and Modelling of Multi-Wavelength Observational Data from Protoplanetary Discs</i> , PI Peter Woitke, with 3 year Postdoc for Amsterdam starting in January 2012
2010		<i>Not realized</i> : Marie-Curie reintegration grant for Chris Ormel, successful application, but applicant went for a Hubble fellowship at UC Berkeley instead, grant was not transferable.
2008		Attracted Mihkel Kama as NWO Top Talent Student to work on HERSCHEL/HIFI data.
2000	– 2006	During these years, several applications lead to fund raising of 650 k€ (NWO-M 400k€, ASTRON 100k€, NOVA 150€) for SPHERE/ZIMPOL, a polarimeter behind an extreme adaptive optics system for the VLT. While L. Waters is PI on these proposals, I co-wrote these proposals as well as the science cases that helped to get the SPHERE selected as VLT instrumentation.
2005		van Gogh grant VGP 78-387 for collaboration with Ceccarelli and Menard in Grenoble, France
2004		van Gogh grant VGP 78-387 for collaboration with Ceccarelli and Menard in Grenoble, France
2003		Subsidie Gebietsbestuur Exacte Wetenschappen <i>Formation of Planets: The First Steps</i> – Projectnummer 614.000.309, PhD position

List of Publications – Carsten Dominik

October 27, 2011

International refereed journals: submitted and in press

This is a selection of a few important papers submitted or in press at the time of writing.

- *Images of the Extended Outer Regions of the Debris Ring Around HR 4796 A.*
by Thalmann, C., M. Janson, E. Buenzli, T. D. Brandt, J. P. Wisniewski, A. Moro-Martín, T. Usuda, G. Schneider, J. Carson, M. W. McElwain, C. A. Grady, M. Goto, L. Abe, W. Brandner, C. Dominik, et al..
2011, *ApJ*, in press.
- *Herschel images of an extrasolar Kuiper Belt at the height of its dynamical activity.*
by Acke, B., Min, M., Dominik, C., Vandenbussche, B., Waelkens, C., Olofsson, G., Degroote, P., Smolders, K., Pantin, E., Barlow, M.J., Blommaert, J.A.D.L., Brandeker, A., De Meester, W., Dent, W.R.F., Exter, K., Di Francesco, J., Fridlund, M., Gear, W.K., Glauser, A.M., Greaves, J.S., Harvey, P.M., Henning, Th., Hogerheijde, M.R., Holland, W.S., Huygen, R., Ivison, R.J. Jean, C., Liseau, R., Naylor, D.A., Pilbratt, G.L., Polehampton, T.E., Regibo, S., Royer, P., Sibthorpe, B., Sicilia-Aguilar, A., Swinyard, B.M..
2011, *Science*, submitted.

International refereed journals

1. *Detection of the Water Reservoir in a Forming Planetary System.*
by Hogerheijde, M. R., E. A. Bergin, C. Brinch, L. Ilseidore Cleeves, J. K. J. Fogel, G. A. Blake, C. Dominik, D. C. Lis, G. Melnick, D. Neufeld, O. Panic, J. C. Pearson, L. Kristensen, U. A. Yildiz, and E. F. van Dishoeck.
2011, *Science* **334**, 316.
2. *Dust coagulation and fragmentation in molecular clouds. II. The opacity of the dust aggregate size distribution.*
by Ormel, C. W., M. Min, A. G. G. M. Tielens, C. Dominik, and D. Paszun.
2011, *Astronomy and Astrophysics* **532**, A43.
3. *Accretion through the inner hole of transitional disks: what happens to the dust?.*
by Dominik, C. and C. P. Dullemond.
2011, *Astronomy and Astrophysics* **531**, A101.
4. *Low abundance, strong features: window-dressing crystalline forsterite in the disk wall of HD 100546.*
by Mulders, G. D., L. B. F. M. Waters, C. Dominik, B. Sturm, J. Bouwman, M. Min,

- A. P. Verhoeff, B. Acke, J. C. Augereau, N. J. Evans, T. Henning, G. Meeus, and J. Olofsson.
2011, *Astronomy and Astrophysics* **531**, A93.
5. *Stirring up the dust: a dynamical model for halo-like dust clouds in transitional disks.*
by Krijt, S. and C. Dominik.
2011, *Astronomy and Astrophysics* **531**, A80.
 6. *Piercing the Glare: A Direct Imaging Search for Planets in the Sirius System.*
by Thalmann, C., T. Usuda, M. Kenworthy, M. Janson, E. E. Mamajek, W. Brandner, C. Dominik, M. Goto, Y. Hayano, T. Henning, P. M. Hinz, Y. Minowa, and M. Tamura.
2011, *Astrophysical Journal Letters* **732**, L34.
 7. *The complex circumstellar environment of HD 142527.*
by Verhoeff, A. P., M. Min, E. Pantin, L. B. F. M. Waters, A. G. G. M. Tielens, M. Honda, H. Fujiwara, J. Bouwman, R. van Boekel, S. M. Dougherty, A. de Koter, C. Dominik, and G. D. Mulders.
2011, *Astronomy and Astrophysics* **528**, A91.
 8. *The thermal structure and the location of the snow line in the protosolar nebula: Axisymmetric models with full 3-D radiative transfer.*
by Min, M., C. P. Dullemond, M. Kama, and C. Dominik.
2011, *Icarus* **212**, 416-426.
 9. *Water in Star-forming Regions with the Herschel Space Observatory (WISH). I. Overview of Key Program and First Results.*
by van Dishoeck, E. F., et al..
2011, *PASP* **123**, 138-170.
 10. *The Widespread Occurrence of Water Vapor in the Circumstellar Envelopes of Carbon-rich Asymptotic Giant Branch Stars: First Results from a Survey with Herschel/HIFI.*
by Neufeld, D. A., E. González-Alfonso, G. Melnick, R. Szczerba, M. Schmidt, L. Decin, J. Alcolea, A. de Koter, F. L. Schöier, V. Bujarrabal, J. Cernicharo, C. Dominik, K. Justtanont, A. P. Marston, K. Menten, H. Olofsson, P. Planesas, D. Teyssier, and L. B. F. M. Waters.
2011, *Astrophysical Journal Letters* **727**, L29.
 11. *The Protoplanetary Disk Around the M4 Star RECX 5: Witnessing the Influence of Planet Formation?*
by Bouwman, J., W. A. Lawson, A. Juhász, C. Dominik, E. D. Feigelson, T. Henning, A. G. G. M. Tielens, and L. B. F. M. Waters.
2010, *Astrophysical Journal Letters* **723**, L243-L247.
 12. *Nitrogen hydrides in the cold envelope of IRAS 16293-2422.*
by Hily-Blant, P., et al..
2010, *Astronomy and Astrophysics* **521**, L52.
 13. *Polarisation observations of VY Canis Majoris H₂O 5₃₂-4₄₁ 620.701 GHz maser emission with HIFI.*

- by Harwit, M., et al..
2010, *Astronomy and Astrophysics* **521**, L51.
14. *Herschel/HIFI detections of hydrides towards AFGL 2591. Envelope emission versus tenuous cloud absorption.*
by Bruderer, S., et al..
2010, *Astronomy and Astrophysics* **521**, L44.
 15. *Herschel/HIFI observations of spectrally resolved methylidyne signatures toward the high-mass star-forming core NGC 6334I.*
by van der Wiel, M. H. D., et al..
2010, *Astronomy and Astrophysics* **521**, L43.
 16. *First detection of ND in the solar-mass protostar IRAS16293-2422.*
by Bacmann, A., et al..
2010, *Astronomy and Astrophysics* **521**, L42.
 17. *Herschel/HIFI spectroscopy of the intermediate mass protostar NGC 7129 FIRS 2.*
by Johnstone, D., et al..
2010, *Astronomy and Astrophysics* **521**, L41.
 18. *Herschel/HIFI observations of high-J CO lines in the NGC 1333 low-mass star-forming region.*
by Yıldız, et al..
2010, *Astronomy and Astrophysics* **521**, L40.
 19. *The methanol lines and hot core of OMC2-FIR4, an intermediate-mass protostar, with Herschel/HIFI.*
by Kama, M., C. Dominik, S. Maret, F. van der Tak, E. Caux, C. Ceccarelli, A. Fuente, N. Crimier, S. Lord, et al..
2010, *Astronomy and Astrophysics* **521**, L39.
 20. *Water in massive star-forming regions: HIFI observations of W3 IRS5.*
by Chavarría, L., et al..
2010, *Astronomy and Astrophysics* **521**, L37.
 21. *Herschel observations of the hydroxyl radical (OH) in young stellar objects.*
by Wampfler, S. F., et al..
2010, *Astronomy and Astrophysics* **521**, L36.
 22. *Hydrides in young stellar objects: Radiation tracers in a protostar-disk-outflow system.*
by Benz, A. O., et al..
2010, *Astronomy and Astrophysics* **521**, L35.
 23. *Variations in H_2O^+/H_2O ratios toward massive star-forming regions.*
by Wyrowski, F., et al..
2010, *Astronomy and Astrophysics* **521**, L34.
 24. *Sensitive limits on the abundance of cold water vapor in the DM Tauri protoplanetary disk.*

- by Bergin, E. A., M. R. Hogerheijde, C. Brinch, J. Fogel, U. A. Yıldız, L. E. Kristensen, E. F. van Dishoeck, T. A. Bell, G. A. Blake, J. Cernicharo, C. Dominik, et al..
2010, *Astronomy and Astrophysics* **521**, L33.
25. *Water abundances in high-mass protostellar envelopes: Herschel observations with HIFI.*
by Marseille, M. G., et al..
2010, *Astronomy and Astrophysics* **521**, L32.
26. *Ortho-to-para ratio of interstellar heavy water.*
by Vastel, C., et al..
2010, *Astronomy and Astrophysics* **521**, L31.
27. *Water in low-mass star-forming regions with Herschel . HIFI spectroscopy of NGC 1333.*
by Kristensen, L. E., et al..
2010, *Astronomy and Astrophysics* **521**, L30.
28. *Water vapor toward starless cores: The Herschel view.*
by Caselli, P., et al..
2010, *Astronomy and Astrophysics* **521**, L29.
29. *The distribution of water in the high-mass star-forming region NGC 6334 I.*
by Emprechtinger, M., et al..
2010, *Astronomy and Astrophysics* **521**, L28.
30. *Herschel spectral surveys of star-forming regions. Overview of the 555-636 GHz range.*
by Ceccarelli, C., A. Bacmann, A. Boogert, E. Caux, C. Dominik, et al..
2010, *Astronomy and Astrophysics* **521**, L22.
31. *Herschel/HIFI deepens the circumstellar NH₃ enigma.*
by Menten, K. M., et al..
2010, *Astronomy and Astrophysics* **521**, L7.
32. *A HIFI preview of warm molecular gas around χ Cygni: first detection of H₂O emission toward an S-type AGB star.*
by Justtanont, K., et al..
2010, *Astronomy and Astrophysics* **521**, L6.
33. *Discovery of water vapour in the carbon star V Cygni from observations with Herschel/HIFI.*
by Neufeld, D. A., et al..
2010, *Astronomy and Astrophysics* **521**, L5.
34. *Water content and wind acceleration in the envelope around the oxygen-rich AGB star IK Tauri as seen by Herschel/HIFI.*
by Decin, L., et al..
2010, *Astronomy and Astrophysics* **521**, L4.
35. *Herschel/HIFI observations of high-J CO transitions in the protoplanetary nebula CRL 618.*

- by Bujarrabal, V., et al..
2010, *Astronomy and Astrophysics* **521**, L3.
36. *Dust Evolution in Protoplanetary Disks Around Herbig Ae/Be Stars – the Spitzer View.*
by Juhász, A., J. Bouwman, T. Henning, B. Acke, M. E. van den Ancker, G. Meeus,
C. Dominik, M. Min, A. G. G. M. Tielens, and L. B. F. M. Waters.
2010, *Astrophysical Journal* **721**, 431-455.
37. *The β Pictoris disk imaged by Herschel PACS and SPIRE.*
by Vandenbussche, B., et al..
2010, *Astronomy and Astrophysics* **518**, L133.
38. *The Vega debris disc: A view from Herschel.*
by Sibthorpe, B., et al..
2010, *Astronomy and Astrophysics* **518**, L130.
39. *First results of the Herschel key program “Dust, Ice and Gas In Time” (DIGIT): Dust and gas spectroscopy of HD 100546.*
by Sturm, B., et al..
2010, *Astronomy and Astrophysics* **518**, L129.
40. *Dust, Ice, and Gas In Time (DIGIT) Herschel program first results. A full PACS-SED scan of the gas line emission in protostar DK Chamaeleontis.*
by van Kempen, T. A., et al..
2010, *Astronomy and Astrophysics* **518**, L128.
41. *Origin of the hot gas in low-mass protostars. Herschel-PACS spectroscopy of HH 46.*
by van Kempen, T. A., et al..
2010, *Astronomy and Astrophysics* **518**, L121.
42. *Water cooling of shocks in protostellar outflows. Herschel-PACS map of L1157.*
by Nisini, B., et al..
2010, *Astronomy and Astrophysics* **518**, L120.
43. *The CHESS spectral survey of star forming regions: Peering into the protostellar shock L1157-B1. II. Shock dynamics.*
by Lefloch, B., et al..
2010, *Astronomy and Astrophysics* **518**, L113.
44. *The CHESS spectral survey of star forming regions: Peering into the protostellar shock L1157-B1. I. Shock chemical complexity.*
by Codella, C., et al..
2010, *Astronomy and Astrophysics* **518**, L112.
45. *Detection of interstellar oxidaniumyl: Abundant H_2O^+ towards the star-forming regions DR21, Sgr B2, and NGC6334.*
by Ossenkopf, V., et al..
2010, *Astronomy and Astrophysics* **518**, L111.

46. *Water abundance variations around high-mass protostars: HIFI observations of the DR21 region.*
by van der Tak, F. F. S. et al..
2010, *Astronomy and Astrophysics* **518**, L107.
47. *Herschel-PACS spectroscopy of the intermediate mass protostar NGC 7129 FIRS 2.*
by Fich, M., et al..
2010, *Astronomy and Astrophysics* **518**, L86.
48. *Chemical study of intermediate-mass (IM) Class 0 protostars. CO depletion and N₂H⁺ deuteration.*
by Alonso-Albi, T., A. Fuente, N. Crimier, P. Caselli, C. Ceccarelli, D. Johnstone, P. Planesas, J. R. Rizzo, F. Wyrowski, M. Tafalla, B. Lefloch, S. Maret, and C. Dominik.
2010, *Astronomy and Astrophysics* **518**, A52.
49. *Testing the theory of grain growth and fragmentation by millimeter observations of protoplanetary disks.*
by Birnstiel, T., L. Ricci, F. Trotta, C. P. Dullemond, A. Natta, L. Testi, C. Dominik, T. Henning, C. W. Ormel, and A. Zsom.
2010, *Astronomy and Astrophysics* **516**, L14.
50. *SPITZER-IRS spectral fitting of discs around binary post-AGB stars - Corrigendum.*
by Gielen, C., H. van Winckel, M. Min, L. B. F. M. Waters, T. Lloyd Evans, M. Matsuura, P. Deroo, C. Dominik, M. Reyniers, A. Zijlstra, K. D. Gordon, F. Kemper, R. Indebetouw, M. Marengo, M. Meixner, G. C. Sloan, A. G. G. M. Tielens, and P. M. Woods.
2010, *Astronomy and Astrophysics* **515**, 2.
51. *Full two-dimensional radiative transfer modelling of the transitional disk LkCa 15.*
by Mulders, G. D., C. Dominik, and M. Min.
2010, *Astronomy and Astrophysics* **512**, A11.
52. *The lunar phases of dust grains orbiting Fomalhaut.*
by Min, M., M. Kama, C. Dominik, and L. B. F. M. Waters.
2010, *Astronomy and Astrophysics* **509**, L6.
53. *Collisional evolution of dust aggregates. From compaction to catastrophic destruction.*
by Paszun, D. and C. Dominik.
2009, *Astronomy and Astrophysics* **507**, 1023-1040.
54. *The inner rim structures of protoplanetary discs.*
by Kama, M., M. Min, and C. Dominik.
2009, *Astronomy and Astrophysics* **506**, 1199-1213.
55. *Analysis of the infrared spectra of the peculiar post-AGB stars EP Lyrae and HD 52961.*
by Gielen, C., H. van Winckel, M. Matsuura, M. Min, P. Deroo, L. B. F. M. Waters, and C. Dominik.
2009, *Astronomy and Astrophysics* **503**, 843-854.
56. *Dust coagulation and fragmentation in molecular clouds. I. How collisions between dust aggregates alter the dust size distribution.*

- by Ormel, C. W., D. Paszun, C. Dominik, and A. G. G. M. Tielens.
2009, *Astronomy and Astrophysics* **502**, 845-869.
57. *Evidence for CO depletion in the inner regions of gas-rich protoplanetary disks.*
by van der Plas, G., M. E. van den Ancker, B. Acke, A. Carmona, C. Dominik, D. Fedele,
and L. B. F. M. Waters.
2009, *Astronomy and Astrophysics* **500**, 1137-1141.
58. *Radiative transfer in very optically thick circumstellar disks.*
by Min, M., C. P. Dullemond, C. Dominik, A. de Koter, and J. W. Hovenier.
2009, *Astronomy and Astrophysics* **497**, 155-166.
59. *Model infrared spectra of passively heated proto-planetary disks surrounding intermediate-mass pre-main-sequence stars.*
by Meijer, J., L. B. F. M. Waters, A. de Koter, M. Min, R. van Boekel, C. Dominik, and
C. P. Dullemond.
2009, *Astronomy and Astrophysics* **496**, 741-749.
60. *A parameter study of self-consistent disk models around Herbig AeBe stars.*
by Meijer, J., C. Dominik, A. de Koter, C. P. Dullemond, R. van Boekel, and L. B. F. M. Waters.
2008, *Astronomy and Astrophysics* **492**, 451-461.
61. *Coagulation of small grains in disks: the influence of residual infall and initial small-grain content.*
by Dominik, C. and C. P. Dullemond.
2008, *Astronomy and Astrophysics* **491**, 663-670.
62. *Size-sorting dust grains in the surface layers of protoplanetary disks.*
by Dullemond, C. P. and C. Dominik.
2008, *Astronomy and Astrophysics* **487**, 205-209.
63. *The structure of protoplanetary disks surrounding three young intermediate mass stars. I. Resolving the disk rotation in the [OI] 6300 Å line.*
by van der Plas, G., M. E. van den Ancker, D. Fedele, B. Acke, C. Dominik, L. B. F. M. Waters,
and J. Bouwman.
2008, *Astronomy and Astrophysics* **485**, 487-495.
64. *Numerical determination of the material properties of porous dust cakes.*
by Paszun, D. and C. Dominik.
2008, *Astronomy and Astrophysics* **484**, 859-868.
65. *Dust-grain processing in circumbinary discs around evolved binaries. The RV Tauri spectral twins RU Centauri and AC Herculis.*
by Gielen, C., H. van Winckel, L. B. F. M. Waters, M. Min, and C. Dominik.
2007, *Astronomy and Astrophysics* **475**, 629-637.
66. *AMBER and MIDI interferometric observations of the post-AGB binary IRAS 08544-4431: the circumbinary disc resolved.*

- by Deroo, P., B. Acke, T. Verhoelst, C. Dominik, E. Tatulli, and H. van Winckel.
2007, *Astronomy and Astrophysics* **474**, L45-L48.
67. *An Unbiased Survey of 500 Nearby Stars for Debris Disks: A JCMT Legacy Program.*
by B.C. Matthews, J. S. Greaves, W. S. Holland, M. C. Wyatt, et al..
2007, *PASP* **119**, 842-854.
68. *Binarity as a key factor in protoplanetary disk evolution: Spitzer disk census of the eta
Chamaeleontis cluster.*
by J. Bouwman, W.A. Lawson, C. Dominik, E.D. Feigelson, Th. Henning, A.G.G.M. Tie-
lens, L.B.F.M. Waters.
2006, *Astrophysical Journal Letters*, **653**, L57-L60.
69. *H₂D⁺: A Light on Baryonic Dark Matter?.*
by C. Ceccarelli and C. Dominik.
2006, *Astrophysical Journal Letters* **640**, L131-L134.
70. *Water ice growth around evolved stars. II. Modeling infrared spectra.*
by C. Dijkstra, C. Dominik, J. Bouwman, and A. de Koter.
2006, *Astronomy and Astrophysics* **449**, 1101-1116.
71. *The Distribution of Ortho-H₂D⁺ (1_{1,0}-1_{1,1}) in L1544: Tracing the Deuteration Factory in
Prestellar Cores.*
by C. Vastel, P. Caselli, C. Ceccarelli, T. Phillips, M. C. Wiedner, R. Peng, M. Houde, and
C. Dominik.
2006, *Astrophysical Journal* **645**, 1198-1211.
72. *The Distribution of Ortho-H₂D⁺ (1_{1,0} - 1_{1,1}) in L1544: Tracing the Deuteration Factory in
Prestellar Cores.*
by C. Vastel, P. Caselli, C. Ceccarelli, T. G. Phillips, M. Wiedner, R. Peng, M. Houde,
and C. Dominik.
2006, *Astrophysical Journal* **645**, 1198-1211.
73. *The influence of grain rotation on the structure of dust aggregates.*
by D. Paszun and C. Dominik.
2006, *Icarus* **182**, 274-280.
74. *The 10 μm amorphous silicate feature of fractal aggregates and compact particles with
complex shapes.*
by M. Min, C. Dominik, J. W. Hovenier, A. de Koter, and L. B. F. M. Waters.
2006, *Astronomy and Astrophysics* **445**, 1005-1014.
75. *Gas-Phase Water in the Surface Layer of Protoplanetary Disks.*
by C. Dominik, C. Ceccarelli, D. Hollenbach, and M. Kaufman.
2005, *Astrophysical Journal Letters* **635**, L85-L88.
76. *The composition and size distribution of the dust in the coma of Comet Hale Bopp.*
by M. Min, J. W. Hovenier, A. de Koter, L. B. F. M. Waters, and C. Dominik.
2005, *Icarus* **179**, 158-173.

77. *Flaring and self-shadowed disks around Herbig Ae stars: simulations for 10 μm interferometers.*
by R. van Boekel, C. P. Dullemond, and C. Dominik.
2005, *Astronomy and Astrophysics* **441**, 563-571.
78. *Discovery of Deuterated Water in a Young Protoplanetary Disk.*
by C. Ceccarelli, C. Dominik, E. Caux, B. Lefloch, and P. Caselli.
2005, *Astrophysical Journal Letters* **631**, L81-L84.
79. *Deuterated H_3^+ in proto-planetary disks.*
by C. Ceccarelli and C. Dominik.
2005, *Astronomy and Astrophysics* **440**, 583-593.
80. *Absorption and scattering properties of arbitrarily shaped particles in the Rayleigh domain: A rapid computational method and a theoretical foundation for the statistical approach.*
by M. Min, J. W. Hovenier, C. Dominik, A. de Koter, and M. A. Yurkin.
2005, *J. Quantitative Spectroscopy & Radiative Transfer* **97**, 161-180.
81. *A 10 μm spectroscopic survey of Herbig Ae star disks: Grain growth and crystallization..*
by R. van Boekel, M. Min, L.B.F.M. Waters, A. de Koter, C. Dominik, M.E. van den Ancker, and J. Bouwman.
2005, *Astronomy and Astrophysics* **437**, 189-208.
82. *Strong dust processing in circumstellar discs around 6 RV Tauri stars. Are dusty RV Tauri stars all binaries?.*
by S. de Ruyter, H. van Winckel, C. Dominik, L.B.F.M. Waters., and H. Dejonghe.
2005, *Astronomy and Astrophysics* **435**, 161-166.
83. *Dust coagulation in protoplanetary disks: A rapid depletion of small grains.*
by C.P. Dullemond and C. Dominik.
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