Curriculum Vitae

Family Name: Anders - First Name: Peter

Date of Birth: 1^{st} September 1976, Berlin (Germany) - Citizenship: German

Affiliation: Sterrenkundig Instituut
Universiteit Utrecht
P.O. Box 80000
NL-3508 TA Utrecht (The Netherlands)
E-Mail: P.Anders@uu.nl

Telephone: +34-(0)30/2535206
Fax: +34-(0)30/2535201

Position: Full-time postdoc position

Education

Ph.D., Astrophysics, Universität Göttingen (Germany), 2006
Concentrations: Theoretical and observational astrophysics
Dissertation: Formation and evolution of star clusters in interacting galaxies
supervisors: Prof. Dr. U. Fritze – v. Alvensleben (Göttingen, Germany) & Dr. R. de Grijs (Sheffield, UK)

M.Phil., University of Loughborough (UK), 2001
Concentrations: experimental solid state physics, material physics
Thesis: Investigation of the shape - memory properties in the ferro-magnetic Ni_2MnGa system
supervisor: Prof. K. Ziebeck

Diploma: Humboldt - Universität zu Berlin (Germany), 1996 – 2000
Concentrations: physics, mathematics, solid state physics, astrophysics, elementary particle physics

Professional Appointments

Currently I am an appointed postdoctoral research assistant at the University of Utrecht.

Teaching experiences

- 2005: Co-preparing and co-lecturing "Interacting galaxies and star clusters" with U. Fritze – v. Alvensleben (Universität Göttingen, Germany)
- 2001: Assistant supervisor of physics lab classes (University of Loughborough, UK)
- 2000/01: Tutorials accompanying the lectures "Introduction to computational
- 2000: Teaching training course (University of Loughborough, UK) physics" and "Physics I" (University of Loughborough, UK)

Peer-reviewed publications

1. *"Spectral and Photometric Evolution of Young Stellar Populations: the Impact of Gaseous emission at Various Metallicities"*, **P. Anders**, U. Fritze – v. Alvensleben, A&A, 401, 1063 (2003)

2. *"Star Cluster Formation and Evolution in the Dwarf Starburst Galaxy NGC 1569"*, **P. Anders**, R. de Grijs, U. Fritze – v. Alvensleben, N. Bissantz, MNRAS, 347, 17 (2004)

3. *"Analysing observed star cluster SEDs with evolutionary synthesis models: Systematic uncertainties"*, **P. Anders**, N. Bissantz, U. Fritze – v. Alvensleben, R. de Grijs, MNRAS, 347, 196 (2004)

4. *"Accurate photometry of extended spherically symmetric sources"*, **P. Anders**, M. Gieles, R. de Grijs, A&A, 451, 375 (2006)

5. *"The young star cluster system in the Antennae: evidence for a turnover in the luminosity function"*, **P. Anders**, N. Bissantz, L. Boysen, R. de Grijs, U. Fritze-v. Alvensleben, MNRAS, 377, 91 (2007)

6. *"Stellar populations and star cluster formation in interacting galaxies with the Advanced Camera for Surveys"*, R. de Grijs, J.T. Lee, M. Clemencia Mora Herrera, U. Fritze – v. Alvensleben, **P. Anders**, New Astron., 8, 155 (2003)

7. *"Star cluster formation and evolution in nearby starburst galaxies - I. Systematic uncertainties"*, R. de Grijs, U. Fritze – v. Alvensleben, **P. Anders**, J. S. Gallagher, N. Bastian, V. A. Taylor, R.A. Windhorst, MNRAS, 342, 259 (2003)

8. *"Star cluster formation and evolution in nearby starburst galaxies - II. Initial conditions"*, R. de Grijs, **P. Anders**, N. Bastian, R. Lynds, H. J. G. L. M. Lamers, E. J. O'Neil, MNRAS, 343, 1285 (2003)

9. *"CIRPASS near-infrared integral-field spectroscopy of massive star clusters in the starburst galaxy NGC 1140"*, R. de Grijs, L.J. Smith, A. Bunker, R.G. Sharp, J.S. Gallagher, **P. Anders**, A. Lancon, R.W. O'Connell, I.R. Parry, MNRAS, 352, 263 (2004)

10. *"Systematic uncertainties in the analysis of star cluster parameters based on broad-band imaging observations"*, R. de Grijs, **P. Anders**, H. J. G. L. M. Lamers, N. Bastian, U. Fritze – v. Alvensleben, G. Parmentier, M. E. Sharina, S. Yi, MNRAS, 359, 874 (2005)

11. *"How well do we know the age and mass distributions of the star cluster system in the Large Magellanic Cloud?"*, R. de Grijs, **P. Anders**, MNRAS, 366, 295 (2006)

12. *"The photometric evolution of dissolving star clusters I: First predictions"*, H.J.G.L.M. Lamers, **P. Anders**, R. de Grijs, A&A, 452, 131 (2006)

13. *"Star Clusters in the Nearby Late-Type Galaxy NGC 1311"*, P.B. Eskridge, R. de Grijs, **P. Anders**, R.A. Windhorst, V.A. Mager, R.A. Jansen, AJ, 135, 120 (2008)

14. *"A peculiar object in M51: fuzzy star cluster or a background galaxy?"*, R.A. Scheepmaker, H.J.G.L.M. Lamers, S.S. Larsen, **P. Anders**, A&A, 477, 117 (2008)

15. *"Young Globular Clusters in an old S0: Clues to the Formation History of NGC 4570"*, R. Kotulla, U. Fritze, **P. Anders**, MNRAS, 387, 1149 (2008)

16. *"Dynamical mass of a star cluster in M83: a test of fibre-fed multi-object spectroscopy"*, S.L. Moll, R. de Grijs, **P. Anders**, P.A. Crowther, S.S. Larsen, L.J. Smith, S.F. Portegies Zwart, A&A, 490, 125 (2008)

Participation in Conferences

1. **Analysing Multi-Color Observations of Young Star Clusters in Mergers**, at *'New Horizons in Globular Cluster Astronomy'*, Padova 2002 (poster)

2. **Evolutionary Synthesis Modelling of Young Star Clusters in Merging Galaxies**, at *'The Evolution of Galaxies, III. From Simple Approaches to Self-Consistent Models'*, Kiel 2002 (poster)

3. **New Evolutionary Synthesis Tool for Modelling Young Star Clusters in Merging Galaxies**, at *'Extragalactic Globular Cluster Systems'*, Garching 2002 (poster)

4. **Multi-color observations of Young Star Clusters**, at *'IAU General Assembly, Joint Discussion 6'*, Sydney 2003 (poster)

5. **Star Clusters and ASTROVIRTEL**, at *'IAU General Assembly, Joint Discussion 8'*, Sydney 2003 Talk

6. **Young star clusters: Progenitors of globular clusters!?**, at *'IAU General Assembly, Joint Discussion 11'*, Sydney 2003 Talk

7. **Young star clusters: Metallicity tracers in external galaxies**, at *'IAU General Assembly, Joint Discussion 21'*, Sydney 2003 Talk

8. **Young star clusters: Clues to galaxy formation and evolution**, at *'IAU General Assembly, Symposium 217'*, Sydney 2003 (poster)

9. **Young Star Clusters: Lighthouses in the dark**, at *'IAU General Assembly, Symposium 221'*, Sydney 2003 (poster)

10. **Measuring sizes and compactnesses of Young Star Clusters**, at *'Starbursts - From 30 Doradus to Lyman break galaxies'*, Cambridge 2004 (poster)

11. **Nearby star cluster formation: Probes of cosmological galaxy evolution**, at *'Rencontres de Moriond, XXVth Moriond Astrophysics Meeting'*, La Thuile (I) 2005 Talk

12. **The impact of selective mass loss on the age determination of star clusters**, at *'Mass loss from stars and the evolution of stellar clusters'*, Lunteren (NL) 2006 Talk

13. **Cautious notes of star cluster modelling**, at *'Fine-Tuning Stellar Population Models'*, Leiden (NL) 2006 Short talk

14. **Persistent problems: Cluster dissolution and the initial cluster luminosity function**, at *'The dynamics of star clusters and star cluster systems (MODEST-7d)'*, Sheffield (UK) 2006 Talk

15. **How mass segregation in star clusters can change the observed SFHs of galaxies**, at *'Netherlands Astronomy Conference 2007'*, Veldhoven (NL) 2007 Talk

16. **N-Body simulations of star clusters**, at *'Dynamical Evolution of Dense Stellar Systems'*, *IAUS 246*, Capri (I) 2007 (poster)

17. **The young star cluster system of the Antennae galaxies**, at *Young massive star clusters: Initial conditions and environments*, Granada (E) 2007 Talk

18. **How well do N-body codes compare?**, at *MODEST-8 meeting*, Bad Honnef (D) 2007 Talk

Additional Oral Presentations

- Göttingen, regular seminar talks, approx. twice per year, 2002-2006
- Stellar Populations Group, Institute of Astronomy, Cambridge, UK, seminar, May 2002 + February 2003
- *"Star Clusters and ASTROVIRTEL"*, Garching, D, ASTROVIRTEL meeting, September 2002
- *"Evolutionary synthesis: Models and applications"*, University of Sheffield, UK, seminar, March 2004
- INAOE, Puebla, MX, July 2004; in the framework of the Guillermo Haro WORKshop on "Violent Star Formation and the Legacy Tool"
- *"Modelling Star Clusters in Interacting Galaxies"*, University of Bonn, D, seminar, February 2005
- *"Modelling Young Star Clusters in Interacting Galaxies"*, University of Prague, CZ, seminar, February 2005

Research visits

- IoA, Cambridge, UK, March-June 2002 + February 2003
- University of Utrecht, NL, April 2003
- University of Sheffield, UK, March 2004
- INAOE, Puebla, MX, June/July 2004; in the framework of the Guillermo Haro WORKshop on "Violent Star Formation and the Legacy Tool"
- 3x 1 week ISSI, Bern, CH, November 2004, April/November 2005
- University of Sheffield, UK, September 2005
- IoA, Cambridge, UK, CAMBODY summer school, August 2006
- 3x 1 week ISSI, Bern, CH, November 2006, March/December 2007
- 1 week AIP, Potsdam, D, May 2008, workshop "The First Practical Workshop on IFU Observations and Data Reduction"

Grants

- 2002: European Commission, *Human Potential Program*, to fund my *Marie Curie* Host Fellowship at the Institute of Astronomy, University of Cambridge, UK (EARASTARGAL "*The Evolution of Stars and Galaxies*", 5FP contract HPMT-CT-2000-00132)
- 2002-2005: Grant of the German Research Foundation (DFG) to fund my PhD project, DFG grants Fr 916/11-1, Fr 916/11-2, Fr 916/11-3
- Grant by conference organisers to attend the IAU General Assembly, Sydney, Australia, 2003
- Grant by workshop organisers to attend the Guillermo Haro WORKshop on "Violent Star Formation and the Legacy Tool", Puebla, Mexico, 2004

- Grant by summer school organisers to attend the CAMBODY summer school, Cambridge, UK, 2006
- Grant by conference organisers to attend the IAU General Assembly, Prague, Czech Republic, 2006
- 2006-2008: Grant of the Dutch Research Foundation (NWO) to fund my postdoc position at the University of Utrecht
- Grant by IAU to attend the IAUS 246, Capri, Italy, 2007
- 2008-2010: Grant of the European Union, Marie Curie Intra-European Fellowship, to fund my postdoc position at the University of Utrecht