

FIR Fine Structure Line Workshop

Workshop Program

June 8-11, 2015 | Haus der Astronomy, Heidelberg, Germany

<u>Monday</u>	<u>Topic</u>	<u>Speaker</u>	<u>Affiliation</u>
8:30	Bus Leaves HD		
8:45	Coffee & Paying Registration Fee in House of Astronomy		
9:15	Welcome and opening remarks	<i>Roberto Decarli & Carl Ferkinhoff</i>	
9:30	40 Years of FIR Fine-Structure-Line Spectroscopy	<i>Martin Harwit</i>	Cornell University
Session 1: Modeling of FIR Fine-Structure Line Emission (Chair: Ilse De Looze)			
10:00	Keynote: Modelling FIR fine-structure line emission	<i>Rowin Meijerink</i>	Leiden Univ.
10:30	Coffee Break		
11:00	Disentangling the multiphase contribution to CII	<i>Brent Groves</i>	Australian National University
11:20	Understanding ULIRG Energetics via Comparisons of Observed and Simulated Merger SEDs	<i>Howard Smith</i>	Harvard-Smithsonian Center for Astrophysics
11:40	[CII] Synthetic Emission Maps of Simulated Galactic Discs	<i>Annika Franeck</i>	I. Physikalisches Institut der Universitaet zu Koeln
12:00	Using CII and OI to trace CO-dark molecular gas	<i>Simon Glover</i>	Institute for Astronomy, University of Heidelberg
12:25	Lunch		
Session 2: Galactic studies of FIR FSL Lines (Chair: Eric Bertram)			
13:30	Keynote: Galactic studies of FIR fine structure lines	<i>Sarah Ragan</i>	University of Leeds
14:00	Ionized, atomic and molecular carbon at the onset of high-mass star formation	<i>Henrik Beuther</i>	MPIA
14:20	The Galactic distribution of [CII] and its relationship with Star Formation.	<i>Jorge L. Pineda</i>	Jet Propulsion Laboratory, California Institute of Technology
14:40	[NII] Fine Structure Emission Survey of the Galactic Plane	<i>Paul Goldsmith</i>	Jet Propulsion Laboratory, California Institute of Technology
15:00	Detection of a large fraction of atomic gas not associated with star-forming material in M17 SW	<i>Juan-Pablo Perez-Beaupuits</i>	Max-Planck fur Radioastronomie
15:20	Coffee Break		
15:50	Fine structure line emission from the young planetary nebula NGC7027 - a case study with GREAT	<i>Helmut Wiesemeyer</i>	Max-Planck-Institut fur Radioastronomie, Bonn
16:10	Thermal balance in S140: Mysterious fine structure lines as mapped with GREAT/SOFIA.	<i>Evgenia Koumpia</i>	SRON/Kapteyn Astronomical Institute
16:30	The role of [OI] self-absorption in S140	<i>Volker Ossenkopf</i>	I. Physikalisches Institut der Universitaet zu Koeln
16:50	[CII] and CO SOFIA observations in M17SW	<i>Cristian Guevara</i>	University of Cologne
17:10	Observations of the circumnuclear disc with FIFI-LS	<i>Aaron Bryant</i>	Universitaet Stuttgart
17:40	End of Day		
18:00	Bus Departs		

<i>Tuesday</i>	<i>Topic</i>	<i>Speaker</i>	<i>Affiliation</i>
8:30	Bus Leaves HD		
8:45	Coffee		
9:15	The Quantum Mechanics of fine structure lines: [CI, CII, OI, and OIII]	Hans Zinnecker	SOFIA Science Center
Session 3: Resolved studies of FSL in Nearby Galaxies (Chair: Maria Kapala)			
9:35	Keynote: Title TBA	<i>JD Smith</i>	U of Toledo
10:05	ISM properties in the Local Group dwarf irregular galaxy IC10	<i>Fiorella Lucia Polles</i>	CEA Saclay, SAp
10:25	Coffee		
10:55	Revealing a complex velocity structure and variation of the column densities by velocity resolved [CII], [CI], and CO observations of the N159 star-forming region in the LMC	<i>Yoko Okada</i>	I. Physikalisches Institut der Universitaet zu Koeln
11:15	Witnessing the Effects of Massive Star Formation in 30Doradus of the LMC	<i>Melanie Chevance</i>	CEA/SAp/AIM
Session 4: Unresolved FSL studies in nearby galaxies (Chair: Melanie Chevance)			
11:35	Keynote: Over the Peak: Probing the Radiation, Particle, and Column Densities in IR-Bright Galaxies using Far-IR Fine-Structure Lines	<i>Jacqueline Fischer</i>	<i>Naval Research Lab.</i>
12:05	Observations of OI and CII in M33 with SOFIA/GREAT	<i>Christof Buchbender</i>	I. Physik. Institut, Universitaet zu Koeln
12:25	Lunch		
13:30	A study of fine structure lines in a nearby blue compact galaxy	<i>Drew Brisbin</i>	National Radio Astronomy Observatory
13:50	The reliability of FIR lines as star formation rate indicator	<i>Ilse De Looze</i>	1. Institute of Astronomy, University of Cambridge 2. Ghent University
14:10	Non-SF heating related [CII] emission in the bulge of M31	<i>Maria Kapala</i>	MPIA
14:30	Overview of Discussion/Unconference Sessions		
14:40	Discussion/Unconference Session #1		
16:00	Coffee		
16:20	Discussion/Unconference Session #2		
17:40	End of the Day		
18:00	Bus Departs		

<u>Wednesday</u>	<u>Topic</u>	<u>Speaker</u>	<u>Affiliation</u>
8:30	Bus Leaves HD		
8:45	Coffee		
Session 5: FSL Studies in Nearby Extreme Systems (Chair: Bitten Gullberg)			
9:15	Keynote: Title TBA	<i>Tanio Diaz Santos</i>	Uni. Diego Portales, Chile
9:45	The ISM properties of low-metallicity star-forming galaxies unveiled by Herschel.	<i>Diane Cormier</i>	ITA/ZAH, University of Heidelberg
10:05	FIR line emission from low-z gas-rich massive galaxies: line deficits and implications for high-z galaxies	<i>Benjamin Weiner</i>	Steward Observatory
10:25	Fine Structure Lines in the Nearby Universe and Connections to High-z Sources	<i>Alberto Bolatto</i>	University of Maryland
10:45	Coffee		
Session 6: FSL studies in the High-z Universe (Chair: Drew Brisbin)			
11:15	Keynote: Fine-structure lines for studying the chemical evolution of galaxies	<i>Tohru Nagao</i>	Ehime University
11:45	On the [CII]-SFR relation in high redshift galaxies	<i>Livia Vallini</i>	Universita di Bologna - Dipartimento di Fisica e Astronomia
12:05	The nature of the [CII] emission in dusty star-forming galaxies from the SPT survey	<i>Bitten Gullberg</i>	ESO
12:25	Lunch		
13:30	First detection of the CO(17-16) line in a z>6 quasar	<i>Simona Gallerani</i>	Scuola Normale Superiore
13:50	The brightest strongly lensed dusty star forming galaxies through the Herschel SPIRE FTS	<i>Richard George</i>	University of Edinburgh
14:10	The ISM at z=7	<i>Bram Venemans</i>	MPIA
14:30			
15:00	Coffee Break		
15:30	Discussion/Unconference Session #3		
17:30	End of Day at HdA		
17:45	Bus departs for HD		
18:30 - 20:45	Conference Dinner at Semann's		
20:45 - 21:30	Conference Summary		

<u>Thursday</u>	<u>Topic</u>	<u>Speaker</u>	<u>Affiliation</u>
9:00	<i>Bus Leaves HD</i>		
9:15	<i>Coffee</i>		
Session 7: Instruments and Facilities for FSL studies (Chair: Hans Zinnecker)			
9:45	Fine Structure Line Observations with SOFIA	<i>Juergen Stutzki</i>	I. Physik. Institut, Universitaet zu Koeln
10:05	Science with the Far-Infrared Spectroscopic Explorer (FIRSPEX)	<i>Dimitra Rigopoulou</i>	University of Oxford
10:25	IR spectroscopy of fine-structure lines and diagnostics of galaxy evolution	<i>Luigi Spinoglio</i>	IAPS-INAF
10:45	<i>Coffee</i>		
11:15	Conference Summary Writing		
12:25	<i>Lunch</i>		
13:00	Closing remarks during lunch		
13:35	<i>Workshop Ends</i>		
13:50	<i>Bus Leaves</i>		