

Preliminary program for  
**6th Russbach Workshop on Nuclear Astrophysics**  
March 2 - 6, 2009

**Sunday**  
March 1

Travel to "Russbach am Pass Gschütt" from Salzburg via Golling-Abtenau  
(for connections, see [www.oebb.at](http://www.oebb.at) and [www.postbus.at](http://www.postbus.at))  
In case of late arrival at Golling (after 17:40) take a taxi or call  
Gasthof Schönblick (+43 / 6242 221)

16:00 – 20:00

Registration at Gasthof Schönblick

20:00

Dinner

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**Monday**  
March 2

08:30 – 09:00	K.-L. Kratz B. Pfeiffer O. Sorlin	Welcome and general information
09:00 – 10:00	M. Busso	Overview lecture: Nuclear astrophysics
10:00 – 10:30		Coffee
10:30 – 11:30	A. Haungs	At the doorway to particle astronomy - the multi-messenger approach to sources of high-energy particles
11:30 – 12:15	A. Parikh	Sensitivity studies in nuclear astrophysics
16:00 – 16:20	G. Sala	X-rays from classical novae and X-ray bursts
16:20 – 16:50	O. Tesilianu	Jets from forming protostars - importance of atomic cooling
16:50 – 17:20		Coffee
17:20 – 18:20	J. Sobeck	Astronomical observations of ancient stars
18:30		Dinner
20:15	Bernd Pfeiffer	Public lecture (in German) Wir sind alle Sternenstaub

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**Tuesday**

March 3

08:30 – 09:15	M. Couder	Measurement techniques for radiative capture of astrophysical interest
09:15 – 10:15	A. Zilges	Experimental techniques to investigate the p-process of nucleosynthesis
10:15 – 10:45		Coffee
10:45 – 11:05	A. Sauerwein	Activation experiments at HIGS
11:05 – 11:25	F. de Oliveira Santos	Resonant elastic and inelastic scattering measurements for astrophysics
11:25 – 11:45	Y. Kim	Nucleosynthesis of white dwarfs using the tracer-particle method
11:45 – 12:05	C. Herlitzus	Improvement of the NERO n-longcounter with a cosmic-ray shield
16:00 – 17:00	B. Pfeiffer	The Atomic Mass Evaluation
17:00 – 17:30		Coffee
17:30 – 18:00	S. Naimi	Mass measurements in the region of Z=48 at ISOLTRAP - data between the rp- and the r-process
18:00 – 18:45	S. Typel	Indirect methods for nuclear astrophysics - Coulomb dissociation, ANC method, Trojan-Horse method
18:45 – 19:15	A. Ostrowski	Carbon burning - reaction cross sections at high Coulomb parameters
19:30		Dinner

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**Wednesday**

March 4

08:30 – 09:00	K.-L. Kratz	The N=82 shell-quenching idea for the astrophysical r-process
09:00 – 10:00	F. Nowacki	Shell model description of nuclei far from the stability line
10:00 – 10:30		Coffee
10:30 – 11:30	W.B. Walters	Nuclear structure near Sn-132
11:30 – 11:50	L. Caceres	Nuclear structure in the vicinity of the doubly-magic Sn-132 nucleus
11:50 – 12:10	K. Sieja	Shell model calculations of half-lives of r-process nuclei for N=82 and N=126
16:00 – 16:20	M. Assié	Big Bang nucleosynthesis with neutral nuclei
16:20 – 17:00	C. Fröhlich	Stellar evolution and explosions: Contributions to the abundance evolution in galaxies
17:00 – 17:30		Coffee
17:30 – 18:15	I. Seitenzahl	Type Ia supernovae
18:15 – 19:00	C. Fröhlich	Strontium, molybdenum, and p-rich supernova ejecta
19:30		Dinner

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**Thursday**

March 5

08:30 – 09:00	J. Stone	Shell quenching in the Zr to Sn region
09:00 – 10:00	J. Dudek	Mean-field and tensor forces - energy gaps and waiting-points
10:00 – 10:30		Coffee
10:30 – 11:15	K.-L. Kratz	The r-Process: Results from the SN-II HEW Model
10:15 – 12:00	K.-L. Kratz	Co-production of p-, s- and r-isotopes in the "LEPP" region
16:00 – 16:45	N. Stone	Shell closures at Ni-56 and Ni-68 - Evidence from magnetic moments of Cu-isotopes
16:45 – 17:15		Coffee
17:15 – 18:15	J. Duprat	Interplanetary dust collections - antarctic CONCORDIA project and cometary STARDUST mission
		18:30 Walk to Franzl Alm
19:00 – 23:00		"Kasnocken"-Dinner & Tyrolean music

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**Friday**

March 6

08:30 – 09:00	L. Husti	S-process and Ba stars
09:00 – 10:00	R. Gallino	Updating Galactic chemical evolution of the s-process, and inferring new hints for the weak r(s) component puzzle
10:00 – 10:30		Coffee
10:30 – 10:50	M.E. Bennett	Nucleosynthesis in massive stars: results from a new stellar nucleosynthesis post-processing code from NUGRID
10:50 – 11:10	E. Maiorca	Solar photospheric N abundance - determination with 1D and 3D model atmospheres
11:10 – 11:40	J. Pereira	Gross $\beta$ -decay properties near Zr-110
11:40 – 12:10	J. Stone	Microscopic nuclear EOS
16:00 – 16:30	S. Typel	Equation of State for astrophysical applications
16:30 – 17:30	R. Diehl	Gamma astronomie
17:30 – 18:10		Coffee and discussion round
18:10 – 18:30	Nick Stone	Closing remarks
19:00		"Haxen"-Dinner & Farewell Party

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**Saturday**  
March 7

07:30 - 09:30

Breakfast  
Departure