

Preliminary program for  
**5th Russbach Workshop on Nuclear Astrophysics**  
March 3 - 8, 2008

**Sunday**  
March 2

**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 @ Gasthof Schönblick

20:00

Dinner

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**Monday**

March 3

**Note: Lecture room is in the center of Russbach at the "Gemeindesaal",  
1st floor of the building Tourismusverband opposite to Hotel Kirchenwirt**

08:30 - 09:00	K.-L. Kratz B. Pfeiffer	Welcome & General Information
09:00 - 10:00	B. Pfeiffer	History of astrophysics: From the Pythagoreans to nucleosynthesis
10:00 - 10:30	Coffee	
10:30 - 12:00	A. Frebel	What old stars tell us about the infant Universe
16:00 - 17:00	L. Mashonkina	Chemical evolution of the Galaxy stellar populations from observations of cool stars
17:00 - 17:30	Coffee	
17:30 - 18:30	I. Ivans	Spectroscopic observations and abundance determinations of ancient stars
18:45		Dinner
20:15	B. Pfeiffer	Public lecture (in German) Kann uns der Himmel auf den Kopf fallen? Außerirdische Einflüsse auf Klimaänderungen?

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**Tuesday**

March 4

08:30 - 09:00	F. Käppeler	s-Process nucleosynthesis - Introduction
09:00 - 10:00	R. Gallino	Galactic production of s-elements
10:00 - 10:30	Coffee	
10:30 - 11:15	F. Käppeler	The s-process in massive stars - new experimental data and further needs
11:15 - 12:00	S. Marrone	Recent s-process experiments at n_TOF
16:00 - 16:45	P. Mohr	Isomers in nucleosynthesis - $^{180}\text{Ta}$ and other examples
16:45 - 17:15	L. Husti	Ba-stars - theoretical interpretation
17:15 - 17:40	Coffee	
17:40 - 18:25	R. Gallino	How to derive solar system r-process "residuals"
18:25 - 18:45	I. Ivans	Observation of r rich stars
19:00		Dinner Tyrolean music @ Gasthof Schönblick

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**Wednesday**

March 5

08:30 - 09:30	M. El Eid	Uncertainties in calculating the s-process in massive stars
09:30 - 10:00	S. Palmerini	CBP due to magnetically induced extramixing in AGB stars
10:00 - 10:30	Coffee	
10:30 - 11:30	J. Jose	10 Gyr of classical Nova explosions
11:30 - 12:00	J.-C. Dalouzy	Spectroscopy of $^{19}\text{Ne}$ -search for a new astrophysically important $1/2^+$ state
16:00 - 17:00	O. Sorlin	Nuclear structure evolution at the N=28 (and N=82) shell closure(s)
17:00 - 17:30	Coffee	
17:30 - 18:15	K.-L. Kratz	Th,U chronometers and correlated production of Pb, Bi
18:15 - 18:45	L. Buchmann	The TRIUMF-ISAC facility
19:00		Dinner

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**Thursday**

March 6

08:30 - 09:15	O. Sorlin	Research program in astrophysics at GANIL
09:15 - 10:00	K.-L. Kratz	r-Process I: With the waiting-point approach from B <sup>2</sup> FH to yesterday
10:00 - 10:30	Coffee	
10:30 - 11:30	M. Liebendoerfer	Neutrino transport for efficient 3D Supernova models
11:30 - 12:00	K.-L. Kratz	r-Process II: Results from the HEW SNII model
16:15 - 17:15	R. Diehl	γ-Ray astronomy
17:15 - 17:35	Coffee	
17:35 - 18:20	M. El Eid	The 6 numbers - Shaping of the Universe
18:30		Walk to Franzl Alm
19:00		Dinner

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**Friday**  
Mach 7

08:30 - 09:15	J. Jose	X-ray bursts
09:15 - 10:15	J. Stone	Nuclear mass models
10:15 - 10:45	Coffee	
10:45 - 11:30	A. Herlert	High-precision mass measurements of short-lived nuclei
11:30 - 12:15	K.-L. Kratz	HEW model predictions vs. Halo-star observations
16:00 - 17:00	N. Stone	Pathological physics is alive and well
17:00 - 17:30	Coffee	
17:30 - 18:15	All	Discussion round: What remains to be measured and modeled?
18:15 - 18:30	N.N.	Summary
19:00		"Haxen"-Dinner & Farewell Party

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**Saturday**  
March 8

07:30 - 09:30

Breakfast  
Departure

**For participants of the  
14th Workshop on "Nuclear Astrophysics" at Ringberg Castle / Tegernsee**

**Sunday**  
March 9

08:30 - 10:00	Breakfast
14:00	Transfer from Russbach to Ringberg Castle
16:00 - 18:30	Check-in at Ringberg Castle
19:00	Dinner // Hexenzimmer