

Program

Workshop on R-Matrix and Nuclear Reactions in Stellar Hydrogen and Helium Burning

La Fonda, Santa Fe, NM
April 21 – 23, 2008

Monday April 21, 2008		Tuesday April 22, 2008		Wednesday April 23, 2008	
Chair	Wiescher	Chair	Iliadis	Chair	Brune
9:00	Welcome and introduction Wiescher (ND)	9:00	LUNA experiments for CNO burning Imbriani (Naples)	9:00	Introduction to the R-matrix code AZURE Uberseder (ND)
9:30	35 years of collaboration with Dick Azuma Rolfs (Bochum)	9:30	Status of $^{14}\text{N}(p,\gamma)$ Trautvetter (Bochum)	9:30	AZURE analysis of $^{14}\text{N}(p,\gamma)$ Simpson (Surrey U.)
10:00	Coffee break	10:00	Coffee break	10:00	Coffee break
Chair	Rolfs	Chair	D'Auria	Chair	Ruiz
10:30	The early days of r-matrix theory Vogt (TRIUMF)	10:30	The production of ^7Be in stars Gialanella (Naples)	10:30	Low energy studies of the $^{15}\text{N}(p,\gamma)$ reaction LeBlanc (ND)
				10:45	AZURE analysis of $^{21}\text{Na}(p,p)$ deBoer (ND)
11:00	Reaction cross sections needs in astrophysics Iliadis (UNC)	11:00	Alpha capture studies at Notre Dame Görres (ND)	11:00	Radioactive Beams and the Path to ISAC (and FRIB) D'Auria (ORNL/DOE/SFU)
11:30	Using R-Matrix Theory to Obtain and Analyze Astrophysical Data Hale (LANL)	11:30	The DRAGON Program: Results, Developments, Plans Ruiz (TRIUMF)	11:30	Closing Remarks Jackson (TRIUMF)
12:00	Lunch break	12:00	Lunch break	12:00	Lunch
15:30	Coffee	15:30	Coffee		
Chair	Azuma	Chair	Trautvetter		
16:00	Recent Developments in R-Matrix Analysis Brune (Ohio U.)	16:00	Cascade transitions in ^{16}O and the $^{12}\text{C}(\alpha,\gamma)^{16}\text{O}$ reaction Matei (ORAU & ORNL)		
16:30	ANC Techniques and R-Matrix Analysis Rogachev (FSU)	16:30	ERNA experiments and r-matrix analysis for $^{12}\text{C}(\alpha,\gamma)^{16}\text{O}$ Schürmann (ND)		
17:00	Error Analysis in R-Matrix Simulations Ugalde (UNC)	17:00	Direct capture in the $^{16}\text{O}(\alpha,\gamma)$ reaction, Costantini (Genova)		
18:00	Reception	18:30	Conference Dinner		