

**Final Schedule of the Humboldt Kolleg entitled  
“Interfacing Structure and Reaction Dynamics in the Synthesis of the Heaviest Nuclei”  
at the ECT\*, Trento, Italy, September 1-4, 2015**

<b>Monday</b>	<b>August 31</b>	
08.00pm	<b>Informal welcome dinner at Ristorante-Pizzeria Green-Tower in Trento</b>	
<b>Tuesday</b>	<b>September 1</b>	
	Chairperson: Birger Back	
09.00am	Giacomo de Angelis (INFN Legnaro, ITALY)	“Programmes of the AvH Foundation” and “The SPES project at Legnaro”
10.00am	Sigurd Hofmann (GSI, GERMANY)	“How to proceed with research of superheavy nuclei?”
11.00am	<b>Coffee at Villa Tambosi</b>	
11.30am	ECT* Colloquium Gottfried Muenzenberg (GSI, GERMANY)	“Superheavy elements and the limits of existence of elementary matter”
12.30pm	<b>Lunch at ECT*, Villa Tambosi</b>	
	Chairperson: Sigurd Hofmann	
02.00pm	Elizabeth Williams (ANU, AUSTRALIA)	“Mapping quasi-fission outcomes with mass-angle distributions”
03.00pm	Avazbek Nasirov (JINR, Dubna, RUSSIA)	“Quasi-fission reactions”
04.00pm	<b>Coffee at Villa Tambosi</b>	
04.30pm	Birger Back (ANL, USA)	“Competition between compound-nucleus formation and quasi-fission in heavy element synthesis”
05.30pm	Alexis Diaz-Torres (ECT*, ITALY)	“Role of diabaticity in reactions forming heavy elements”
06.30pm	Gurgen Adamian (JINR, Dubna, RUSSIA)	“Complete fusion of heavy nuclei”
07.30pm	<b>Dinner at ECT*</b>	
<b>Wednesday</b>	<b>September 2</b>	
	Chairperson: Nikolai Antonenko	
09.00am	Shan-Gui Zhou (ITP, Beijing, CHINA)	“Theoretical study of structure and synthesis mechanism of heavy and superheavy elements ”
10.00am	Ning Wang (Guangxi Normal U, CHINA)	“Nuclear masses and shell corrections of superheavy elements”
11.00am	<b>Coffee at Villa Tambosi</b>	
11.30pm	Sophie Heinz	“Observation of new neutron-deficient

	(GSI, GERMANY)	isotopes with $Z > 92$ in multi-nucleon transfer reactions”
12.30pm	<b>Lunch at ECT*, Villa Tambosi</b>	
	Chairperson: Gurgen Adamian	
02.00pm	Oleg Tarasov (MSU, USA)	“Production of neutron-rich isotopes”
03.00pm	Elena Litvinova (Western Michigan U, USA)	“Many-body correlations in the structure of heavy nuclei”
04.00pm	<b>Coffee at Villa Tambosi</b>	
04.30pm	Xavier Roca-Maza (Milano U, ITALY)	“Regularization of zero-range effective interactions in finite nuclei”
05.30pm	Lu Guo (UCAS, Beijing, CHINA)	“The effect of spin-orbit and tensor forces on the reaction dynamics”
06.30pm	Aurora Tumino (Kore U & LNS-INFN, Catania, ITALY)	“Carbon-burning at sub-barrier energies via the Trojan-Horse method”
07.30pm	<b>Dinner at Restaurant LA BARRACA, near the ECT*</b>	
<b>Thursday</b>	<b>September 3</b>	
	Chairperson: Zsolt Podolyak	
09:00am	Dariusz Seweryniak (ANL, USA)	“Nuclear structure studies of transfermium nuclei”
10:00am	Anatoli Afanasjev (Mississippi State U, USA)	“Nuclear structure theory of the heaviest nuclei: achievements and challenges”
11.00am	<b>Coffee at Villa Tambosi</b>	
11.30am	Nikolai Antonenko (JINR, Dubna, RUSSIA)	“Isomeric states in heaviest nuclei”
12.30pm	<b>Lunch at ECT*, Villa Tambosi</b>	
	Chairperson: Shan-Gui Zhou	
02.00pm	Peter Ring (TU Muenchen, GERMANY)	“Covariant density functional beyond mean field and applications”
03.00pm	Jie Meng (Peking U, CHINA)	“Resonance and halos in covariant density functional with Green-function method”
04.00pm	<b>Coffee at Villa Tambosi</b>	
04.30pm	Jozsef Cseh (ATOMKI, HUNGARY)	“Quarteting in Atomic Nuclei”
05.30pm	Yury Tschuvil'sky (Moscow State U, RUSSIA)	“Electron shell impact on the alpha decay of heavy nuclei”
08.30pm	<b>Kolleg Dinner at Restaurant ORSO GRIGIO, Trento</b>	
<b>Friday</b>	<b>September 4</b>	

	Chairperson: Alexis Diaz-Torres	
09.00am	Zsolt Podolyak (Surrey U, UK)	“Neutron-rich nuclei in the vicinity of $^{208}\text{Pb}$ ”
10.00am	Jose Antonio Lay (Padova U, ITALY)	“Effects of octupole deformation on nuclear fusion with $^{144}\text{Ba}$ and $^{224}\text{Ra}$ ”
11.00am	<b>Coffee at Villa Tambosi</b>	
11.30am	Vazgen Sargsyan (JINR, RUSSIA)	"Population of ground-state rotational bands of superheavy nuclei produced in complete fusion reactions"
12.30pm	<b>Close of Kolleg, Lunch at ECT* (Villa Tambosi) and Farewells</b>	
08.00pm	<b>Dinner at Ristorante-Pizzeria Green-Tower in Trento</b>	