

Programme

The workshop will be held in rooms FD5 (12th) and FA32 (13th)

at the AlbaNova University center, KTH

Thursday 12th September 2013

Room FD5

09:45 **Registration including refreshment** (in the reception hall)

10:00-10:15 Bo Cederwall (KTH)

Welcome

10:15 **Session 1** **(Chair: Andrei Andreyev)**

10:15-11:05 Kai Zuber (Dresden)

Long living alpha decays and fast isobar separation for nuclear spectroscopy

11:05-11:55 Fritz Peter Hessberger (Darmstadt)

Alpha decay as a probe of the Nuclear Structure of Superheavy Elements

11:55-12:15 Claes Fahlander (Lund)

Spectroscopy of element Z=115 decay chains

12:30 **Lunch break**

13:30 Session 2 (Chair: Claes Fahlander)

13:30-14:20 Hans Fynbo (Aarhus)

Beta- and gamma-delayed alpha decay of light nuclei

14:20-15:10 Tzany Kokalova (Birmingham)

Alpha decay states in carbon-12

15:10-16:00 Furong Xu (Peking University)

Configuration-constrained total Routhian surfaces with
particle-number-conserved pairing

16:00 Refreshment break

16:20 Session 3 (Chair: Furong Xu)

16:20-17:10 Yasuro Funaki (RIKEN)

Gas-like alpha cluster states in light nuclei

17:10-18:00 Carl Wheldon (Birmingham)

Alpha decay widths? Absolutely!

18:00-18:20 G. Bolor (Institute of Physics and Technology of
Mongolian)

Nuclear Study in Mongolia

19:00 Conference dinner

Friday 13th September 2013

Room FA32

09:00 Session 5 (Chair: Yasuro Funaki)

09:00-09:50 Marek Pfutzner (Warsaw)

Two-proton radioactivity and alpha decay

09:50-10:40 Alain Astier (Orsay)

Alpha-Pb cluster states in ^{212}Po

10:40 Refreshment break

11:00 Session 6 (Chair: Alain Astier)

11:00-11:50 Robert Page (Liverpool)

Probing nuclear structure beyond the proton drip line through alpha decays

11:50-12:10 Chong Qi (KTH)

Alpha formation properties in heavy nuclei and pairing correlation

12:10-12:30 Piet Van Duppen (Leuven)

Can we learn something from Geiger Nutall curves crossing in one point?

12:30-12:50 Chong Qi (KTH)

Limitation of the Geiger-Nuttall Law

12:50 Lunch break

14:00 Session 7 (Chair: Piet Van Duppen)

14:00-14:30 Junchen Pei (Peking University)

Continuum effects in Weakly-Bound Deformed Nuclei

14:30-15:00 Daniel Ward (Lund)

Alpha particle formation and decay rates from Skyrme-HFB wave functions

15:00-15:30 Basudeb Sahu (Baripada)

A general law for decay of charged particles: proton, alpha and cluster

15:30-16:00 Doru Delion (Bucharest)

Remote presentation via Skype

Systematics of the alpha-decay fine structure

16:00 Refreshment break

16:20 Group discussion Session (Chairs: Mark Huyse & Roberto Liotta)

17:20 Finish