

# First Physics with the Super Separator Spectrometer S3

## Monday 27 March 2017

### **S3 Instrumentation - Building 713 Salle Gallilée (13:30-17:50)**

time	title	presenter
13:30	Welcome	
13:50	Introduction	
14:00	S3 Status update	Dr. SAVAJOLS, Hervé
14:35	SIRIUS Implantation Decay Station	Dr. SULIGNANO, Barbara
15:10	Perspectives with the S3 Low - Energy Branch	Prof. VAN DUPPEN, Piet
15:45	Mass separation and mass measurement capabilities/opportunities with PILGRIM	Dr. DELAHAYE, Pierre
16:05	Coffee break	
16:35	DESIR: Timeline & Physics program	Dr. THOMAS, Jean-Charles
17:10	FISIC	Dr. LAMOUR, Emily

## Tuesday 28 March 2017

### **Heavy and Superheavy Elements: Invited talks - Building 713 Salle Gallilée (08:55-12:20)**

time	title	presenter
08:55	Introduction	Prof. GREENLEES, Paul
09:00	Shapes and alpha-decay of superheavy nuclei	Prof. VRETENAR, Dario
09:30	The structure of heavy and superheavy nuclei with an assessment of theoretical uncertainties	Prof. AFANASJEV, Anatoli
10:00	Description of properties of heavy and very heavy nuclei: mean field and beyond	Dr. BENDER, Michael
10:30	Coffee	
11:00	X-ray tagging for heavy and superheavy nuclei	Dr. ACKERMANN, Dieter
11:20	Nuclear structure and decay spectroscopy of seaborgium and rutherfordium isotopes	Dr. ANTALIC, Stanislav
11:40	High resolution resonance ionization spectroscopy of actinides with REGLIS3	Dr. FERRER, Rafael
12:00	In-trap spectroscopy with MLLtrap	Dr. LOPEZ-MARTENS, Araceli

### **Heavy and Superheavy Elements : Open discussion - Bat 703 room 135 (14:00-17:30)**

time	title	presenter
14:00	Summary	P. GREENLEES
14:30	Discussion	

## Wednesday 29 March 2017

### **N = Z nuclei: Invited talks - Building 713 Salle Galilée (08:55-12:10)**

time	title	presenter
08:55	Introduction	Prof. VAN DUPPEN, Piet
09:00	Open problems at the N=Z line	Dr. VAN ISACKER, Piet
09:30	Review of shell model results in the 100Sn region	Dr. SIEJA, Kamila
10:00	Coffee	
10:30	Cluster radioactivity studies at S3	Dr. BLANK, Bertram
10:50	The 100Sn factory	Dr. SEWERYNIAK, Dariusz
11:10	Single particle states and proton-neutron interaction in the 100Sn region	Dr. CACERES, Lucia
11:30	Resonant ionization spectroscopy of $^{94}\text{Ag}$ and neutron-deficient Sn isotopes	Prof. MOORE, Iain
11:50	Quadrupole moments of isomeric states @S3	Dr. GEORGIEV, Georgi

### **N = Z nuclei: Discussions - Building 713 Salle Galilée (13:30-16:00)**

time	title	presenter
13:30	Summary	Prof. VAN DUPPEN, Piet
14:00	Open discussions	

### **LEB Instrumentation for the first S3 experiments & synergies with DESIR - Building 713 Salle Galilée (16:30-18:30)**

- **Intervenants:** P. VAN DUPPEN; B. BLANK

## Thursday 30 March 2017

### **Masses : Invited talks - Building 713 Salle Gallilée (08:55-10:30)**

time	title	presenter
08:55	Introduction	Dr. DELAHAYE, Pierre
09:00	Modern nuclear mass models	Dr. GORIELY, Stéphane
09:30	High-precision mass measurements at DESIR with S3 beams	Dr. ASCHER, Pauline
09:50	Future perspectives for mass measurements of the heaviest elements	Dr. BLOCK, Michael
10:10	Physics with the MLL trap at Alto and S3	Dr. MINAYA RAMIREZ, Enrique

### **Reaction dynamics: Invited talks - Building 713 Salle Gallilée (11:00-12:45)**

time	title	presenter
11:00	Introduction	Dr. THEISEN, Christophe
11:05	Mean-field and beyond mean-field description of large amplitude motion: application to transfer and fission	Dr. LACROIX, Denis
11:35	Synthesis of super-heavy-elements: what can we predict?	Dr. BOILLEY, David
12:05	Can we produce new isotopes of Sg -> Cn with an uranium target ?	Dr. STODEL, Christelle
12:25	Observation of new transuranium isotopes in multinucleon transfer reactions	Dr. HEINZ, Sophie

### **Discussions - Building 713 Salle Gallilée (14:00-16:00)**

time	title	presenter
14:00	Summary	P. DELAHAYE Dr. THEISEN, Christophe
14:30	Open discussion	

### **User Management board: CLOSED SESSION - Building 713 Salle Gallilée (16:00-18:00)**