

# Intelligent Detectors on Space Science

Program for the joint international lecture week of the Birkeland center and the Research School "Intelligent Detectors" on "Space Science": Monday, 4/9 to Friday, 8.9., room 359 (bachelor room). The lectures are open for everyone, including master students. PhD students will get 2 credits for active participation.

<b>Monday, 4.9.</b>		
14:15	Introduction	Dieter Röhrich (UiB)
14:30	The Birkeland Centre for Space Science	Nikolai Østgaard (UiB)
15:00	Terrestrial Gamma-ray Flashes (TGFs) : <i>The most energetic photon phenomenon in our atmosphere</i>	Nikolai Østgaard (UiB)
16:30	Coffee break	
17:00	Doing science in space by thinking inside the box	Therese Moretto Jørgensen (UiB)
19:00	Reception	
<b>Tuesday, 5.9.</b>		
09:15	Long laboratory sparks: <i>Experimental challenges</i>	Pavlo Kochkin (UiB)
10:45	Coffee break	
11:15	High-energy astrophysics: <i>Detectors, techniques and challenges</i>	Martino Marisaldi (UiB)
12:45	Lunch	
14:00	Norwegian contributions to accelerator physics	Dieter Röhrich (UiB)
15:00	Coffee break	
15:30	Hands-on exercises using the local Van-de-Graaff accelerator	Arvid Erdal (UiB) Dieter Röhrich (UiB)
<b>Wednesday, 6.9.</b>		
09:15	Dosimetry	Anatoly Rozenfeld (Wollongong Uni.)
10:45	Coffee break	
11:15	Space instrumentation I	Gunnar Mæhlum (IDEAS)
12:15	Lunch	
13:15	Space instrumentation II	Gunnar Mæhlum (IDEAS)
15:00	Coffee break	
15:30	Hands-on exercises using the local Van-de-Graaff	Arvid Erdal, Dieter Röhrich
<b>Thursday, 7.9.</b>		
09:15	Space instrumentation III	Kjetil Ullaland (UiB) Georgi Genov (UiB)
10:45	Coffee break	
11:15	Space radiation environment	Timo Stein (IDEAS/UiO)
12:15	Lunch	
13:15	Radiation effects in electronics	Ketil Røed (UiO)
14:15	Coffee break	
14:30-16:00	Connecting the Sun to the Earth: <i>Space Physics in Action</i>	Michael Hesse (UiB)
19:00	Dinner	
<b>Friday, 8.9.</b>		
09:30	The impact of particle precipitation into the atmosphere: <i>A link between space and climate?</i>	Hilde Nesse Tyssøy (UiB)
11:00	Coffee break	
11:30	Discussion and examination	
13:00	Lunch	