## **Joint Instrumentation Seminar**

Freitag 5.11.2010 16:00 FLASH-Seminarraum

## **Ultra-Low Background Approaches**

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It is general belief that the very successful standard model of particle physics is not the final theory and a lot of ongoing activities are linked to find evidence for physics beyond the standard model. One very promising branch of research is the search for extremely rare processes in non accelerator experiments. Examples are the search for dark matter and neutrino physics. A common feature is that the signal rate is very small within an overwhelming background of other events. The talk will focus on the above mentioned field of research and will discuss common background components and the general attempts to reduce them. As the details depend on the actual experiment, some examples will be discussed in more