

**Research field:** Radiation-matter interactions / Solid state physics, chemistry and nanosciences

Analytic chemistry / Solid state physics, chemistry and nanosciences

**Title:** Heterogeneous systems under ionizing radiations. The solid-gas interfaces case.

**Abstract:** In the nuclear industry, many phenomena are controlled by the behaviour of solid gas interfaces under irradiation. However, this problem is complex, as solid state irradiation phenomena can interfere with gas radiolysis. The aim of this thesis will be the design of analytical and spectroscopic experiments allowing to decipher the various contributions to the evolution of the interface.

**Location:** Institut rayonnement et matière de Saclay  
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Laboratoire de Radiolyse (LCF)  
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**More about:** <http://iramis.cea.fr/scm/radiolysis>  
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