

Report on Fustipen Visit to GANIL
January 16, 2011 - January 21, 2011
Nicolas Schunck

Between January 16, 2011 and January 21, 2011, I participated to the Fustipen inauguration meeting "Towards a theory for nuclear structure" at GANIL. I presented a high-level overview of the current and future developments on the microscopic theory of nuclear fission, with a particular emphasis on the possible source of collaboration between French and US laboratories.

Overall, the meeting was extremely successful since it attracted many experts in nuclear theory from the USA and France. The informal setting and high level of competency of the participants led to numerous high-quality scientific discussions and the kind of brainstorming that is crucial to the advancement of science.

This visit was especially fruitful for me since it gave me the opportunity to meet with collaborators Witek Nazarewicz (UTK/ORNL), Héloïse Goutte (GANIL) and Noël Dubray (CEA/DAM). Together, we discussed the possibility of organizing in the framework of Fustipen a topical meeting centered exclusively on the topic of nuclear fission. One of the goals of this meeting would be to discuss the modern theoretical methods needed to tackle the various aspects of this very complex problem, which range from predictions of fission lifetimes in superheavy elements to the accurate description of fission fragments products. In particular, such a meeting could be very useful to coordinate more closely future research at a time of budgetary constraints. Fustipen provides an ideal conduit for collaborative meetings on the theory of fission, since many experts in the field are based either in France or in the USA. The organization of the meeting is scheduled for 2012, probably in January. Such a meeting would be of direct interest to the research I carry out at LLNL.

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