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Fragmentation of hydrocarbons by collision - AGAT@ANDROMEDE

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The purpose of my PhD is to study the collision between hydrocarbon molecules and Helium atoms. The experiment had been done at IPNO with the ANDROMEDE accelerator thanks to the silicon mutidetector AGAT. This work relies on two fundamental studies. The first one is the modelling of ion atom collision which allows us to predict the cross section of the collision. The second one is the fragmentation. The internal energy of the molecule being known, we want to predict the diferent ways of fragmentation. During this presentation I will describe to you the experiment and its goals.

Auteur principal: M. ID BARKACH, Tijani

Orateur: M. ID BARKACH, Tijani

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