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## **Recent development of nucleus nucleus and low energy neutron interactions in Geant4**

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Radiation environment in a spacecraft is very complicated. A variety of high energy nucleus exists in cosmic rays. Some of them interacts with nucleus in the spacecraft and produces many secondary particles including neutrons. Therefore both nucleus-nucleus and neutron-nucleus interactions are important for the assessment of radiational damage of the devices flown on a spacecraft. Recent development of QMD model of Geant4 will be presented, especially an improvement on high energy interactions. I also give a status report of development of a new low energy neutron transportation codes.

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