

FUSTIPEN exit report for Gaute Hagen.

I attended the last two weeks (from July 12<sup>th</sup> to July 24<sup>th</sup>) as a lecturer at the TALENT school “Many-Body Methods for Nuclear Physics” held at GANIL, France, from July 6 to July 24 2015. During my time there, the focus of the lectures was that all students should develop a working code to compute the equation-of-state for neutron- and symmetric nuclear matter using different many-body methods (Hartree-Fock, many-body perturbation theory, coupled-cluster, self-consistent Green’s functions), and starting from the simple Minnesota nucleon-nucleon interaction. I interacted with all the students, lecturers, and Marek Ploszajczak who was present at all times. At the end of the school, all the lecturers, including myself, were very happy with the progress that all the students made. Most were able to reproduce benchmark results for neutron matter and nuclear matter, and some even went beyond the initial goals that were set for the school. Overall I was very satisfied with my stay at GANIL, the financial support from FUSTIPEN, and in particular I am very grateful to Marek Ploszajczak for the hospitality that was showed.