

University of Pretoria Yearbook 2021

Nuclear physics 719 (PHY 719)

Qualification	Postgraduate
Faculty	Faculty of Natural and Agricultural Sciences
Module credits	10.00
NQF Level	08
Prerequisites	Admission only with permission by the Head of the Department of Physics
Contact time	2 lectures per week
Language of tuition	Module is presented in English
Department	Physics
Period of presentation	Semester 2

Module content

Quarks, Nucleons, Isobaric Invariance, NN-interaction, Two-nucleeon system, Deuteron, Elements of scattering theory, NN-scattering, Few-body nuclear systems, General properties of medium and heavy nuclei, Nuclear models, Radioactivity, Nuclear reactions, α -, β -, and γ -decays, Nuclear fission, Nuclear fusion, nuclear astrophysics.

The information published here is subject to change and may be amended after the publication of this information. The **General Regulations (G Regulations)** apply to all faculties of the University of Pretoria. It is expected of students to familiarise themselves well with these regulations as well as with the information contained in the **General Rules** section. Ignorance concerning these regulations and rules will not be accepted as an excuse for any transgression.