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# University of Pretoria Yearbook 2016

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## Nuclear physics 727 (FSK 727)

**Qualification** Postgraduate

**Faculty** [Faculty of Natural and Agricultural Sciences](#)

**Module credits** 12.00

**Prerequisites** No prerequisites.

**Contact time** 4 lectures per week

**Language of tuition** English

**Academic organisation** Physics

**Period of presentation** Semester 1

### Module content

Collective model, shell model, approximate nuclear structure methods, for example Hartree-Fock, random phase approximation, Tamm-Dankoff reaction theory and optical model

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