

Topics in Strangeness Nuclear Physics

Avraham Gal

Racah Institute of Physics, The Hebrew University, Jerusalem, Israel

In this introductory talk I will review briefly several topics that have been and will continue to form the frontier of strangeness nuclear physics, including (i) the spin dependence of the Lambda-Nucleon interaction in Lambda hypernuclei; (ii) the state of the art and prospects for Sigma hypernuclei, for Lambda-Lambda hypernuclei and for Cascade hypernuclei; (iii) prospects for Kbar-nuclear quasibound states. The study of these topics will lead to a better understanding of the role that strangeness plays in neutron stars and whether the concept of strange hadronic matter is meaningful.