

PAUL SCHERRER INSTITUT



Particle Theory Seminar

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“Recent progress in ab initio few/not-so-few-body theories for nuclear physics”

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Abstract:

An overview on the state-of-the-art of ab initio approaches in nuclear physics is given. The focus will be on methods that allow to study both structure and reactions of light nuclei. Particular attention will be paid to the description of reactions of the four-nucleon system with realistic interactions (two- and three-nucleon forces). Recent results will be shown and the perspectives for understanding the multi-body nature of the nuclear interaction will be discussed.