International Collaborations in Nuclear Theory:
Theory for open-shell nuclei near the limits of
stability

Scott K. Bogner (NSCL/Michigan State University), Morten Hjorth-Jensen (NSCL/Michigan State University) and Jason D. Holt (TRIUMF)

May 11-29, 2015, Michigan State University and FRIB/NSCL

Venue: Lecture Hall at the National Superconducting Cyclotron Laboratory/Nuclear Theory Conference Room

We meet all at the **Theory Trailer** (Trailer nr. 7) on the eastern side of the National Superconducting Cyclotron Laboratory (640 South Shaw Lane on the MSU campus). We meet at 8.30am at the **Theory Trailer** for registration. Coffee plus light refreshments are served. Thereafter we walk over to the NSCL Lecture Hall. The third week all talks will be in Nuclear Theory Conference Room in the theory trailer. Lectures start at 9am all days. The Theory Trailer is located close the construction site of the new NSCL/FRIB building (you will see a series of trailers). The Theory Trailer is the one closest to the Wharton Center for performing arts at MSU and Bogue street. From the Town Place hotel it is a walk of at most 20-25 min.

Recording of lectures and live streaming

For those of you who cannot attend the lectures, these are streamed live (access only for people at the NCSL). The link to the website is https://arachnid.nscl.msu.edu/video/icnt/

Program first week May 11-15 2015, Lecture hall NSCL

Time	Monday	
9am-10am	Andreas Ekstrom (ORNL/UTK)	
	Constraining the Description of the Nuclear Interaction	Cluste
10.0am-10.30am	Coffee break	
10.30am-11.30am	Heiko Hergert (MSU)	
	Effective interactions and operators from IM-SRG	
11.30am-2pm	Lunch	
2pm-3.30pm	Discussions	
3.30pm-4pm	Coffee break	
4pm-6pm	Discussions	
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Program second week May 18-22 2015, Lecture Hall NSCL

Monday	Time	
nmy Rotureau (ORNL/MS	9am-10am	/MSU)
al potentials from coupled		pled cluster theory
George Papadimitriou (ISU)	10am-11am	(ISU)
ions of nuclei using comple		mplex energy form
Coffee break	11am-11.30am	
Alexander Volya (FSU)	11.30am-12.30pm	
odel approach to nuclear cl		ar clustering
Lunch	12.30pm-2pm	
Discussions	2pm-3.30pm	
Coffee break	3.30pm-4pm	
Discussions	4pm-6pm	

Program third week May 25-29 2015, Conference Room Theory Trailer

Time	Monday
9am-10am	Luigi Coraggio (INFN, Na
	A new double-step procedure for the derivation of ef
10am-10.30am	Coffee break
10.30am-11.30am	Toshio Suzuki (Tokyo
	Evaluation of nuclear weak rates relevant to a
11.30am-2pm	Lunch
2pm-3.30pm	Houda Naidja (Strasbou
	New Advances in the Shell Model Calculations: Applications are
3.30pm-4pm	Coffee break
4pm-6pm	Discussions