

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

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

## Venue: Lecture Hall at the National Superconducting Cyclotron Laboratory

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 9am all days of the first and third weeks and at 830am the second week. Coffee plus light refreshments are served. Thereafter we walk over to the NSCL Lecture Hall. 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.

For those of you arriving by plane, if Detroit Metro is your final airport, we recommend using the [Michigan Flyer](#) bus service to East Lansing. Take thereafter a taxi to the Town Place hotel. If you are staying at the Kellogg conference center, they organize a shuttle transport from downtown East Lansing. If Lansing is your final airport, we recommend taking a taxi directly to the hotel. Alternatively, you can use CATA bus line 14 and connect with bus line 1 afterwards.

**Program first week May 11-15 2015**

Time	Monday	Tuesday
9.30am-10.30am	<a href="#">Andreas Ekstrom</a> (ORNL/UTK) Constraining the Description of the Nuclear Interaction	<a href="#">Takaharu Otsuka</a> (ORNL)
10.30am-11am	Coffee break	Coffee break
11am-12pm	<a href="#">Heiko Hergert</a> (MSU) Effective interactions and operators from IM-SRG	<a href="#">Alexandra Gade</a> (ORNL) Nuclear spectroscopy
12pm-2pm	Lunch	Lunch
2pm-3.30pm	Discussions	Discussions
3.30pm-4pm	Coffee break	Coffee break
4pm-6pm	Discussions	Discussions

### Program second week May 18-22 2015

Time	Monday	Tuesday
9am-10am	<a href="#">Jimmy Rotureau</a> (ORNL/MSU) Towards optical potentials from coupled cluster theory	
10am-11am	<a href="#">George Papadimitriou</a> (ISU) Structure and Reactions of nuclei using complex energy formalisms	Structure and Reactions of nuclei
11am-11.30am	Coffee break	
11.30am-12.30pm	<a href="#">Alexander Volya</a> (FSU) Shell-model approach to nuclear clustering	Reactions
12.30pm-2pm	Lunch	
2pm-3.30pm	Discussions	
3.30pm-4pm	Coffee break	
4pm-6pm	Discussions	

### Program third week May 25-29 2015

Time	Monday	Tuesday
9.30am-10.30am	<a href="#">Luigi Coraggio</a> (INFN, Naples) A new double-step procedure for the derivation of effective shell-model hamiltonians	
10.30am-11am	Coffee break	
11am-12pm	<a href="#">Toshio Suzuki</a> (Tokyo) Evaluation of nuclear weak rates relevant to astrophysical applications	
12pm-2pm	Lunch	
2pm-3.30pm	Discussions	
3.30pm-4pm	Coffee break	
4pm-6pm	Discussions	