

# 6th Symposium on Neutrinos and Dark Matter in Nuclear Physics 2018 (NDM 2018)

Institute for Basic Science HQ, Daejeon, Korea

June 29 – July 4, 2018



## FIRST CIRCULAR

Dear Colleague,

The 6th Symposium ‘Neutrinos and Dark Matter in Nuclear Physics 2018 (NDM 2018)’ will be held in Daejeon, Korea on June 29-July 4, 2018.

NDM 2018 is in the chain of Symposia started in 2003 in Nara, Japan, which aim at gathering together people from the fields of neutrino physics, astrophysics, and dark-matter physics to discuss experiments and theories which need nuclear-physics input in the form of nuclear targets, nuclear decays, etc.

### SUBJECTS:

- Neutrino-nucleus coherent scattering
- Solar and supernova neutrinos: models and detection
- Double beta decays, experiments and nuclear matrix elements
- Beta decay for neutrino mass measurements
- Cosmological neutrinos and detection feasibility
- Neutrino-nuclear responses in astrophysics, nucleosynthesis
- Neutrino oscillations and matter effects
- Direct dark-matter searches using atomic and nuclear targets
- Indirect dark-matter searches, neutrino astronomy
- Related fields

### CONFIRMED INVITED SPEAKERS:

Baha Balantekin, Pierluigi Belli, Zurab Berezhiani, Francesco Cappuzzello, Mark Chen, Myung-Ki Cheoun, Silvio Cherubini, Vincenzo Cirigliano, Juan Collar,

Basudeb Dasgupta, Sergey Eliseev, Jonathan Engel, Renata Zukanovich Funchal, Kenichi Fushimi, Loredana Gastaldo, Andrea Giuliani, Juan Jose Gomez-Cadenas, Paolo Gondolo, Giorgio Gratta, Karsten Heeger, Mihai Horoi, Toshitaka Kajino, Teppei Katori, Hongjoo Kim, Pyungwon Ko, Chris Kouvaris, Aldo Lanni, Hyunsu Lee, Hye-Sung Lee, Manfred Lindner, Danny Marfatia, Angelo Nucciotti, Jong-Chul Park, Serguey Petcov, Stefano Pirro, Ruben Saakyan, Yannis Semertzidis, Seon-Hee Seo, Aldo Serenelli, Itaru Shimizu, Fedor Simkovic, Martin Spinrath, Neil Spooner, Louis E. Strigari, Jouni Suhonen, Wei Wang, Walter Winter

※ Invitations are currently underway and the list of invited speakers will be updated continuously.

#### ABSTRACT SUBMISSION:

Abstract submission is now available. Submission of an abstract and Registration to the symposium were two separate actions. To submit an abstract, participants use the Abstract Submission link (<http://ndm2018.ibs.re.kr>)

#### SYMPOSIUM VENUE:

Institute for Basic Science HQ, which is currently constructed, serves as a global research hub for basic science with state-of-the-art research facilities and amenities. (<https://www.ibs.re.kr/eng>)

#### REGISTRATION:

The Symposium fee for a participant and accompanying person is to be paid upon registration. For the participant, the fee amounts to 350 USD for registration before May 18, 2018 and after that 450 USD. The fee for the accompanying person is 150 USD before May 18, 2018 and after that 200 USD. A registration will be accessible on the Symposium website ([www.ndm2018.org](http://www.ndm2018.org)) from March 19, 2018.

#### REGISTRATION FEE COVERS:

The Symposium fee for participants includes access and availability to all scientific session, welcome reception (Thursday 28<sup>th</sup> of June), Tour (Sunday 1<sup>st</sup> of July), lunches and coffee breaks during the symposium, welcome kit and name tag. Fee for the accompanying person includes welcome reception (Thursday 28<sup>th</sup> of June), Tour (Sunday 1<sup>st</sup> of July) and name tag. All the fees are to be paid upon registration.

#### SOCIAL EVENTS:

Welcome reception will be held at IBS HQ on June 28. The place for the banquet on Monday is yet to be confirmed. More information about social event will be updated later on the Symposium web page ([HERE](#)).

#### LODGING:

Participants pay their accommodation themselves directly to the hotels. We are pleased to announce that we provide accommodation information with special rate for NDM 2018 Participants. For detailed information and securing the room, please

visit our website ([HERE](#)).

INTERNATIONAL ADVISORY COMMITTEE:

Frank Avignone (South Carolina), Baha Balantekin (Wisconsin), Alexander Barabash (ITEP, Moscow), Rita Bernabei (INFN, Rome), Osvaldo Civitarese (La Plata), Hiro Ejiri (Osaka), Ettore Fiorini (Milano-Bicocca), Dieter Frekers (Muenster), Aksel Hallin (Alberta), Wick Haxton (Seattle), Toshitaka Kajino (Tokyo), Sun Kee Kim (Seoul), Karlhainz Langanke (GSI, Darmstadt), Manfred Lindner (MPI, Heidelberg), Yuri N. Novikov (St. Petersburg), Serguey Petcov (SISSA), Andre Rubbia (ETH, Zurich), Alexei Yu. Smirnov (ICTP, Trieste), Jouni Suhonen (Jyvaskyla), Yoichiro Suzuki (Tokyo), John D. Vergados (Ioannina), Petr Vogel (Caltech)

ORGANIZING COMMITTEE:

Yeongduk Kim (Chair of the Organizing Committee), Hyunsu Lee (Co-chair of the Organizing Committee), Eunju Jeon, Myung Ki Cheoun, Seonho Choi, Eung Jin Chun, Sin Kyu Kang, Yong-Hamb Kim, Pyungwon Ko, Seon-Hee Seo

CONTACT:

All correspondence and requests for further information concerning the Symposium should be sent to NDM 2018 Secretariat (E-mail: [info.ndm2018@gmail.com](mailto:info.ndm2018@gmail.com))

We look forward to seeing you in Daejeon, Korea.

The NDM 2018 Organizing Committee