

# NIC-XIV School 2016



**Monday 13 June 2016 - Friday 17 June 2016**

**Niigata University (Ikarashi Campus)**

## **Scientific Programme**

**Invited Lectures:**

<span>**Timothy BEERS**</span>

<span>**The Chemistry of the First Stars and the Origin of the Astrophysical r-Process**</span>

<span>**Shinji EJIRI**</span>

<span>**Phase Structure of QCD at High Temperature and High Density by Numerical Simulations of Lattice QCD**</span>

<span>**Kei KOTAKE**</span>

<span>**The Explosion Mechanisms of Core-Collapse Supernovae: How to Blow up Massive Stars**</span>

<span>**Maria LUGARO**</span>

<span>**Asymptotic Giant Branch Stars as Drivers of Cosmic Chemistry**</span>

<span>**Shigehiro NAGATAKI**</span>

**<span>Death of Massive Stars: Supernovae and Gamma-Ray Bursts with Explosive Nucleosynthesis</span>**

**<span>Petr NAVRATIL</span>**

**<span>Ab Initio Calculations of Nuclear Reactions Important for Astrophysics</span>**

**<span>Ken-ichi OOHARA</span>**

**<span>Detection of Gravitational Waves and Astrophysics with Gravitational Waves</span>**

**<span>Nils PAAR</span>**

**<span>Nuclear Density Functional Theory for Astrophysics</span>**

**<span>Rosario PIZZONE</span>**

**<span>Trojan Horse Method: A Powerful Tool to Study Nuclear Reactions at Astrophysical Energies</span>**

**<span>Maya TAKECHI</span>**

**<span>Study of the Properties of Atomic Nuclei with RI Beam</span>**