



## **Joint special seminar of the John Adams Institute for Accelerator Science and Oxford Particle Physics**

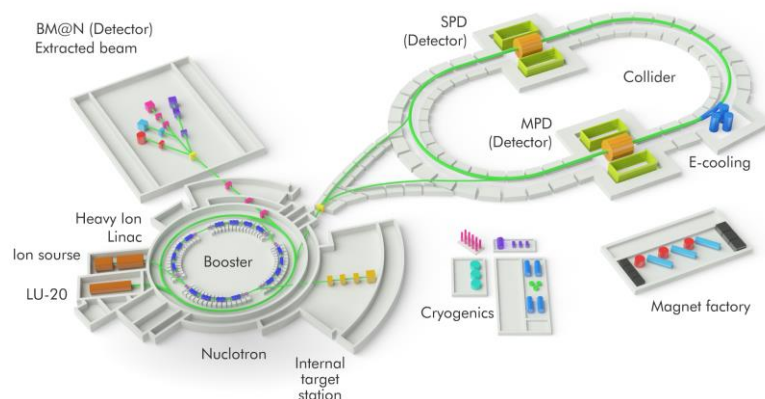
Thursday 17<sup>th</sup> March 2016 at 2:30 pm  
Dennis Sciama Lecture Theatre, Denys Wilkinson Building

### ***International project NICA at the Joint Institute for Nuclear Research***

***Prof. Vladimir Kekelidze,  
Joint Institute for Nuclear Research***

***Abstract:***

The project NICA (Nuclotron-based Ion Collider fAcility) is aimed to study hot and dense baryonic matter in heavy ion collisions in the energy range up to  $\sqrt{s_{NN}} = 11$  GeV, and to study nucleon spin structure in polarized proton and deuteron collisions in the energy range up to  $\sqrt{s_{NN}} = 27$  GeV. The heavy ion program will be performed at the Nuclotron extracted beams with the BM@N (Baryonic Matter at Nuclotron) set-up and with the MPD (MultiPurpose Detector) at the NICA collider with the average luminosity of  $L = 1 \cdot 10^{27} \text{ cm}^{-2} \cdot \text{s}^{-1}$  (for  $^{197}\text{Au}^{79}$ ). The spin physics will be studied with the SPD (Spin Physics Detector) at the NICA collider.



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