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

Thursday 17th 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 $L = 1 \cdot 10^{27}$ cm$^{-2}$s$^{-1}$ (for $^{197}$Au$^{79}$). The spin physics will be studied with the SPD (Spin Physics Detector) at the NICA collider.

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