Dr. Timur Isaev, NRC KI - PNPI, Gatchina, Russia

Title: Electronic structure of laser-coolable molecular ions

Abstract: Electronic structure of some prospective laser-coolable molecular cations is considered from theoretical point. Specific features of the electronic structure, which could lead to unfavorable situation in respect to laser coolability are outlined. Candidate molecular ions containing Ra nuclei are considered as candidates for spectroscopic experiments to search for P- and P,T-odd effects.