## LABORATORI NAZIONALI DEL GRAN SASSO

## SEMINAR ANNOUNCEMENT

## Riccardo Cerulli INFN - LNGS

## Recent investigations on rare nuclear processes in the DAMA set-ups and LNGS Ge facility

Recent results on several nuclear rare processes will be summarized; they have been obtained with the help of the low background DAMA set-ups and of the LNGS Ge facility, where also DAMA/Ge is installed. Emphasis will be given to the continuous efforts to develop and use radiopure/enriched samples/detectors. In this seminar there will be presented a new observation of the 2β2ν decay of 100 Mo to the 01+ level of 100 Ru, the first observation of some rare alpha decays in 190 Pt and in 151 Eu, and the limits obtained on several other rare processes. In particular, there will be outlined the developments, the results and the perspectives of the measurements performed by using CdWO4 scintillators, enriched either in 106 Cd or in 116 Cd. Finally, works in progress and some perspectives will be introduced.

MARCH 27, 2013 – 2:30 PM LNGS - "B. PONTECORVO" ROOM