

MAY 5-7TH 2014

WITH CASTEL LUBERON
INTERCOMMUNITY OF APT - FRANCE

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i-DUST 2014 SCIENTIFIC PROGRAM

Castel-Luberon resort- APT - FRANCE - 05-07 May 2014

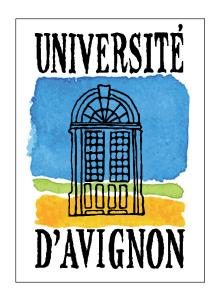
Invited talks: 40' – Contributed talks: 20'

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| Monday May 5, 2014 | Tuesday, May 6, 2014 | Wednesday, May 7, 2014 |
| 08:30 Arrival of participants Registration, coffee | 09:00 Session II Rare events physics | 09:00 Session IV Noise as a signal |
| 10:00 Welcome by Mairie d'Apt Jean-Pierre Cohen-Coudar, 5th Adjoint 10:20 i-DUST opening and welcome Stéphane Gaffet, director of LSBB 10:50 Large excavations and multidisciplinary studies in deep underground laboratories Joseph S.Y. Wang, LBNL, Berkeley, USA 11:30 Session I Critical zone Geological reservoirs • (Invited talk) The Urgonian limestones in South-East France: strategy of characterization of a reservoir analogue Gérard Massonnat, TOTAL, FRA 12:30 LUNCH 14H00: Session I (continued) • Geophysical investigations at the LSBB Guy Sénéchal, Univ. Pau, FRA • Predicting hydraulic, mechanical and seismic properties of carbonates Yves Guglielmi, Univ. Aix-Marseille, FRA • Hydrogeophysical study of structure and functioning of the karst unsaturated zone Konstantinos Chalikakis, Univ. Avignon, FRA | (Invited talk) Phase III (and maybe IV) of the SIMPLE dark matter search experiment at the LSBB Tom Girard, Univ. Lisbon, PRT Neutron spectrometry for inter-disciplinary research at LSBB Véronique Lacoste, IRSN, FRA Muon telescope based on micromegas detectors; from design to data acquisition Ignacio Lázaro Roche, LSBB, FRA Muon tomography using a new technology: micromegas detectors in a TPC design Fanny Hivert, LSBB, FRA 10:40 COFFEE BREAK 11:10 Session II (continued) • Low-noise underground environment to investigate the atmospheric muon impact on the single event effect sensitivity of nano-scales CMOS technologies Pierre Li Cavoli, ONERA, FRA • The Matter-wave laser Interferometer Gravitation Antenna (MIGA) Philippe Bouyer, LP2N, FRA • The Matter-wave laser Interferometer Gravitation Antenna (MIGA): new perspectives for fundamental physics and geosciences Benjamin Canuel, LP2N, FRA | |
| Imaging the LSBB environment from GPR data, along the tunnel and from the surface Guy Sénéchal, Univ. Pau, FRA | 12:30 LUNCH | of magnetometer data, scientific proposal Open to other topical meetings 15:00 COFFEE BREAK |
| 15:20 COFFEE BREAK 15:50 Session I (continued) | 14:00 Session III Couplings: solid Earth, atmosphere and near Universe | 15:30 Visits and dinner To be organized during <i>i</i> -DUST |
| Optical borehole seismic experience with heterodyne distributed vibration sensing Bernard Frignet, Schlumberger, FRA Interaction of seismic waves with the surface topography: a new proxy to infer topographic amplification and ground-motion variability Emeline Maufroy, Univ. Grenoble Alpes, FRA On the use of optical tiltmeters and seismometers for a better determination of strain and displacement at depth Frédéric Boudin, Univ. Montpellier, FRA 20:00 CONFERENCE DINNER | (Invited talk) Sprite observations from Vestale on the Plateau d'Albion Martin Fullekrug, Univ. Bath, GBR An overview of recent [SQUID] ² activities Elizabeth Pozzo di Borgo, Univ. Avignon, FRA Observation of lightning-induced signals on the summit of la grande montagne: part 1 – HF measurements Ivana Kolmasova, Inst. Atm. Physics, CZE Observation of lightning-induced signals on the summit of la grande montagne: part 2 – interferometry and VLF measurements Ondrej Santolik, Inst. Atm. Physics, CZE | Visits of LSBB, LSBB Vestale, Petit Colorado, and/or Fontaine-de-Vaucluse Closing dinner or picnic |
| | 15:40 COFFEE BREAK | |
| | Towards automated remote SQUID stations for geomagnetic measurements | |

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