

Visit plan for Virgo

2019 Sep 25 (Wed.), VK PEM meeting

NAOJ, Tatsuki Washimi

Plan

- Purpose : Practice and help of noise hunting
- Member : 2 people
 - Tatsuki Washimi (NAOJ, Postdoc, environment)
 - Ryosuke Sugimoto (U Toyama, M2, interferometer)
- Schedule : Sep. 29 (Sun.) – Oct. 13 (Sun.), 2 weeks
 - Sep. 29 : arrive at PSA airport (13:40, QR133)
 - Sep. 30 : office procedure, software instruction, ...
 - Oct.1 – 12 : work in Virgo
 - Oct.13 : departure from PSA airport (17:25, QR134)
- Others
 - logging : Hotel Galilei [reserved]
 - rent-a-car : Hertz@airport, Fiat 500L Automatic [reserved]
 - Tourist SIM card : TIM [**not yet**] -> How/Where can we get it?

Schedule

Sep. 29 (Sun.)	13:40	Washimi arrives at PSA airport (QR133)
Sep. 30 (Mon.)	12:00 13:40 pm	Lent a care (Hertz Car Rental @ PSA airport) Sugimoto Sugimoto arrives at PSA airport (QR133) office procedure, software instruction, ...
Oct.1 (Tue.)		
Oct.2 (Wed.)		
Oct.3 (Thu.)		
Oct.4 (Fri.)		
Oct.5 (Sat.)		
Oct.6 (Sun.)		
Oct.7 (Mon.)		
Oct.8 (Tue.)		
Oct.9 (Wed.)		
Oct.10 (Thu.)		
Oct.11 (Fri.)		
Oct.12 (Sat.)		
Oct.13 (Sun.)	15:00 15:30 17:25	return the rent-a-car check in at PSA airport departure from PSA airport (QR134)

Working plan

- Magnetic/Electric noise [TW]
 - 50Hz sideband : Sniffing to locate sources: portable magnetic probe
 - Magnetic injection close to SIB1
 - Perform more selective near field injection in order to disentangle the path: magnets, cables, electronics
 - RF injections
- Laser / Scattered light [RS]
 - Tapping Laser bench and inspecting
 - Tapping SIB2 and inspecting
 - Misalign beam on SIB2
- Vibration measurement on vacuum system etc. [TW]
 - link pipe, vacuum chambers, cryoTrap
 - turbo's cooling fans, remote scroll
 - HVAC noise CEB (if "HVAC" means "high vacuum")
- Impulsive acoustic injections (Reverberation) [TW]
 - source (fire-crackers vs easy-starter) & place dependence
 - discussion toward a journal paper

Baggage

- Chromebook (1)
- USB magnetometer (2)
- USB accelerometer (1)
- USB microphone (1 high precision + 1 cheap)
- USB endoscope (1)
- Easy starter (impulsive acoustic injector) (1)
- Portable shaker injector (1)
- Digital multimeter (1)