

Ray presented the good progress in preparing for the next irradiations (see slides).

Some important points to consider:

1. Syracuse's current funding will cover one more irradiation period. (700\$ per hour)
2. Tullio pointed out that the PLLs in the ACTEL could be particularly sensitive to radiation (eg frequency drift), so we should somehow try to measure that. One suggestion was to incorporate the Nikhef TDC design and do an online test during the irradiation. Tom will investigate and try to send something to Ray. Another possibility is to make a straightforward frequency measurement with (eg) a scope. The PLLs could have status bits that indicate their lock status – to be checked by Ray. These should be monitored during the irradiation.

There was discussion on the 'user-unfriendliness' of ACTEL support, which Ray has experienced. Frederic confirmed that there was little communication from them in the past.

Frederic suggested we try to get better estimates of the radiation environment expected at the upgrade. Ken will contact Gloria.

Tullio presented some data on SEL (see slides). The conclusion is that we are probably safe from SELs in our environment. He also described tools that can automatically include Triple-Modular-Redundancy.

Next meeting will be held just before the next irradiation session.