

Hektohertz Upgrade at TIGO SLR

Stefan Riepl

During April 2006 the TIGO SLR system located in Concepcion/Chile was upgraded to operate with a 100Hz Ti:SAP DPSS laser. The new laser is mode locked with the Semiconducting Saturable Absorber (SESAM) technique, enabling for the generation of stable 40ps pulses in the first harmonic at 847nm.

The results obtained so far in two colour mode indicate that the timing capabilities in both wavelength channels (423.5nm and 847nm) are nearly equal in precision. The present paper gives a short overview of the two colour satellite passages obtained so far.