

**Operation of the 100 MeV Pre-Injector Linac of ELETTRA in the FEL Mode, G. D'AURIA, C. ROSSI, Sincrotrone Trieste, Padriciano 99, 34012 Trieste, Italy** - FERMI is a free electron laser in the infrared wavelength range which is going to be constructed at Sincrotrone Trieste. A first test set up is presently being installed. The device is driven by the 100 MeV part of the linear accelerator which is used as the injector for ELETTRA. To meet the strict requirements for a user dedicated FEL facility and to guarantee a wide flexibility in utilization, some relevant improvements on the linac are in preparation and under test. The modifications performed on the linac are reported and the operation of the linac in the FEL mode is described.