

FEL experiments at SPARC

F. Ciocci, ENEA C.R. Frascati

The SPARC experimental activity on high gain FEL is reported, within the framework of the SPARC LAB activities. The future upgrades of the device are discussed as well as the planned activities and scientific collaborations.

The seeding activity at SPARC is discussed and a possible scheme for self-seeding operation is presented. In particular a tunable DUV light source based on Kagomè crystal fiber is described as a development of SPARC FEL source.