

AVVISO DI SEMINARIO

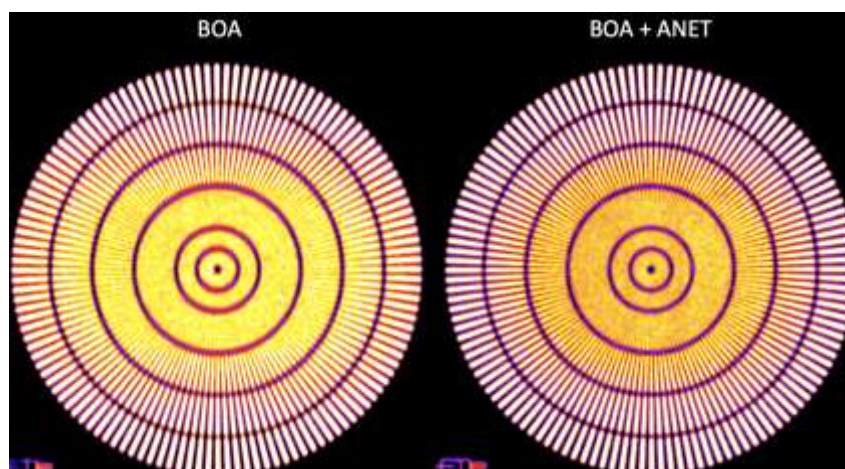
Il giorno 07 Settembre 2022 ore 11.30, aula U2-01

"Development of a compact multichannel neutron collimator"

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This seminar will present the development of a new concept of compact neutron collimator, developed within the framework of the INFN-ANET project. The novel multi-channel geometry is proven to deliver highly collimated neutron beams within very limited distances, outperforming other types of neutron collimators. The technology is designed, prototyped and tested in two different facilities, a reactor source and an accelerator-based source. The optimisation work on the ANET collimator has been successful enough to demonstrate its applicability in tomography. The transport code associated to this new technology is part of the original work developed in this thesis. Through extensive resolution campaigns, this work faces also with the problem of the combination of two collimating systems in a single beamline, showing an improvement in the divergence beyond the expectations. A new theoretical approach to this problem is described and discussed.



Colleghi, studenti e tutti gli interessati sono invitati a partecipare.
Per informazioni rivolgersi a

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