



Contribution ID: 27

Type: **not specified**

Current guide design ideas at Oak Ridge National Laboratory

Friday, 3 March 2023 10:00 (30 minutes)

ORNL is home to two of the most powerful neutron sources in the world (SNS and HFIR) and is currently in the design phase for a third one (STS). Each one of these has their unique moderator design and therefore guide design challenges. Over the past several years and under the initial guidance of Alexandru 'Ducu' Stoica, several predominant ideas have evolved on how to best deal with each of them.

In this talk, I will discuss some of these concepts, for example beam focusing from large moderators, phase space matching using secondary sources for small moderators, the benefits of octagonal guides for tube moderators, and phase space smoothing after curved guides.

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