IPAC'24 - 15th International Particle Accelerator Conference



Contribution ID: 1526 Contribution code: THPR39

Type: Poster Presentation

Review of Known Extraction Kickers

Thursday, 23 May 2024 16:00 (2 hours)

The following paper embarks on an in-depth exploration of extraction kickers employed at some of the most renowned particle physics and neutron science facilities worldwide. Specifically, we delve into the extraction kickers utilized at the Spallation Neutron Source, Fermi National Accelerator Laboratory, Los Alamos Neutron Science Center, and delve into the novel inductive adder structures. These facilities represent the forefront of scientific research, housing state-of-the-art technologies and extraction kicker systems that play a fundamental role in advancing our understanding of particle physics, neutron science, and related domains. Throughout the paper, we will investigate the design principles, operational intricacies, and technological innovations associated with these extraction kickers. By analyzing existing research and scholarly works, we aim to provide a comprehensive overview of the unique challenges and advancements encountered at each facility.

Footnotes

LA-UR-24-24553

Funding Agency

Paper preparation format

Word

Region represented

North America

Primary author: GAUS, Henry (Los Alamos National Laboratory)

Co-authors: NGUYEN, Bang (Los Alamos National Laboratory); COMISKEY, Brandon (Los Alamos National Laboratory); LOFTIN, Evan (Los Alamos National Laboratory); BRADLEY III, Joseph (Los Alamos National Laboratory)

Presenter: NGUYEN, Bang (Los Alamos National Laboratory)

Session Classification: Thursday Poster Session

Track Classification: MC4: Hadron Accelerators: MC4.T12 Beam Injection/Extraction and Transport