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LEP Data@EDM4HEP: Mitigating Data Loss Risks and Strengthening FCC-ee Potential Studies

The LEP data represent the most precise sample of e+e- collision data collected to date. Numerous scientific articles have been published since the conclusion of the experiments, underscoring the ongoing relevance of this dataset. In the context of FCC-ee, these data could play a crucial new role, which would be significantly enhanced by making them available in a standardized event data format such as EDM4HEP, currently developed in the context of the common HEP software ecosystem Key4HEP.

Migrating to EDM4HEP would not only facilitate future studies but also greatly mitigate the risk of data loss, facilitating long-term accessibility and preservation.

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