Workfest I - MC-data matching workfest

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We will discuss MC and data matching from sub-system information to kinematics level. We will present a few examples, drawn from the Forward Tagger and Central Neutron Detector, to discuss the needs and limitations for kinematic smearing or MC digitization improvements in GEMC. **We invite collaborators to bring their examples summarized in short 1-2 slides to diagnose issues and open the discussion on how to address them.**

Workfest II - Optimization of Monte Carlo production for physics analysis

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Monte Carlo simulation for physics analysis can be very expensive in terms of computing resources and wall time. When planning a large Monte Carlo production campaign, it's important to know how long it may take and, if necessary, leverage smart techniques to reach the required statistical precision. Several options are available, from event weighting to populate low-efficiency and low-cross-section regions, to fast Monte Carlo based on an AI model of the detector acceptance.

During this Workfest session, we will explore these ideas with the help of collaborators who have tackled these kinds of problem before. **We invite everyone who feels Monte Carlo simulation for their analysis may be too expensive to bring their use case and explore with us how these alternative options could be applied.**