



# The Goals of the LAWSCHep 2019 Workshop

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# The origins and the scope

- Jesús Martínez Castro (IPN, Mexico), a collaborator of FNAL and CERN for many years, came up with the idea of a school on the topic of detector simulation
- Pere Mato (CERN) and Daniel Elvira (FNAL) suggested to expand the scope of the event to a Latin American Workshop focused on
  - The S&C challenges recently summarized by the HEP community in “A Roadmap for HEP Software and Computing R&D for the 2020’s” (Comput. Softw. Big Sci., 2019, 3: 7, <https://doi.org/10.1007/s41781-018-0018-8>)
- The roadmap document was a result of a process sponsored by the HEP Software Foundation (HSF) to
  - Identify the needs of future experiments in the areas of physics and detector simulation, event reconstruction, data storage & transfer, analysis, etc
  - Discuss potential solutions involving techniques in data science, concurrency and parallelization, heterogeneous computing, artificial intelligence, etc
  - Establish mechanism for communication and collaboration

# What we want to achieve

- Learn from each other on the status of HEP S&C in Latin America and the international community
  - Computing infrastructure, expertise and experience, past and current contributions, plans
- Identify topics of common interest
- Explore partnership and funding opportunities between Latin American Institutions and with international labs
  - Includes strengthening existing collaborative efforts and creating new ones
- Compose a document (Friday afternoon) – we encourage remote participation!
  - Summarizing all of the above
  - Establishing mechanisms for communication and follow up
- Explore one of the primary centers of Native American civilization
  - Don't miss the anthropological museum and the archeological sites in and around the city