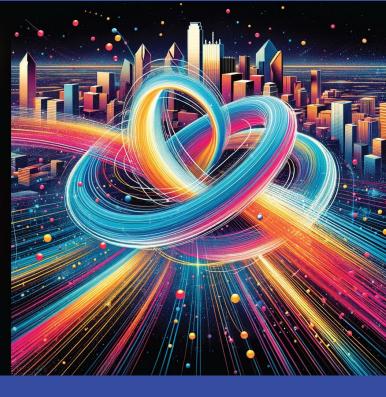
LOOPFEST XXII



https://indico.cern.ch/e/Loopfest2024

Welcome to LoopFest in Dallas!

The 22nd LoopFest meeting on perturbative calculations in quantum field theory and their applications



The theme of this year's workshop: Maximizing the impact of precision calculations

Synergies between advancements in multiloop techniques, parton showers, nonperturbative functions, numerical methods

3 days, 30 talks with plenty of time for discussions

Opportunities to meet international and SMU experts in relevant areas

We thank the SMU Department of Physics, Dedman College of Humanities and Sciences, Moody School of Graduate and Advanced Studies for generous support

We also thank the LoopFest Advisory Committee for help with planning of the workshop



Robert Stewart Hyer (1860-1929)

- The founder and first president of SMU
- A physicist
- A pioneer in applications of radio waves and X-rays







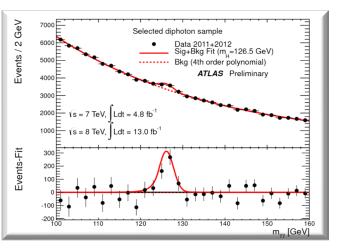
Professor Hyer demonstrating scientific equipment to faculty at Southwestern University. Hyer built a telegraph after reading about Dr. James Maxwell's theory of electromagnetic waves. He was sending radio messages to the Williamson County jail, about 2 miles from campus, two years before Marconi received his patent. He built an X-ray apparatus after reading articles about X-ray experiments. The State Medical Association asked him to demonstrate the advantages of X-ray, as applied to surgery, at a meeting in Waco, Texas in 1897. Circa 1895

SM

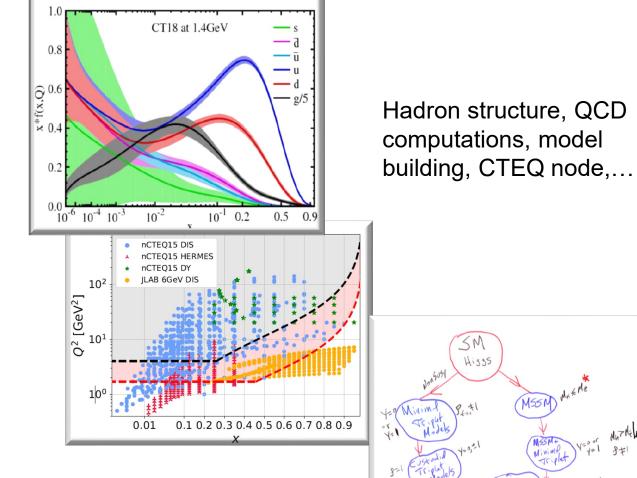
SMU Department of Physics today

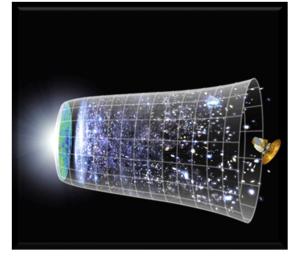
http://www.physics.smu.edu/web/

Particle experiments ATLAS (Higgs, top, ...), NOvA, ...



Particle phenomenology





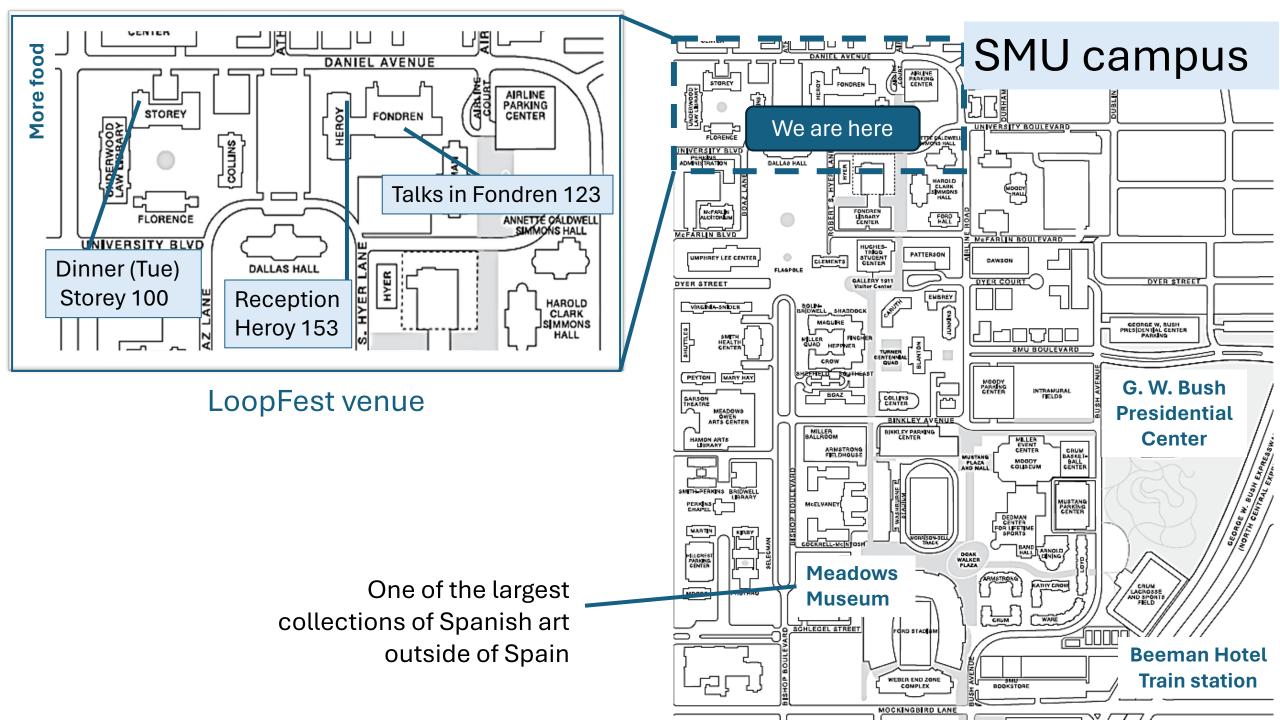
Astrophysics & Cosmology Simons Observatory, CMB-S4, DESI, ROTSE, DES, ...

SMU

Venue and surroundings

Dallas Hall Dedicated in 1915 by R. S. Hyer "Hilltop"

In the National Register of Historic Places



Practical matters

- 1. Please upload your slides to Indico well in advance before the talk or email them to <u>Nadolsky@smu.edu</u> or olness@smu.edu to upload for you
- 2. Wi-Fi access is available both through eduroam and SMU Guest networks.
- 3. Coffee and snacks in the back of the room
- 4. Box lunches will be provided on all three days (both regular and vegetarian options)
- 5. If you need a participation certificate, send an email to <u>Nadolsky@smu.edu</u>.
- 6. We ask all participants to help us maintain the atmosphere of collegiality and mutual respect in accordance with <u>the Code of Conduct at APS meetings</u>.

We wish you a productive workshop!