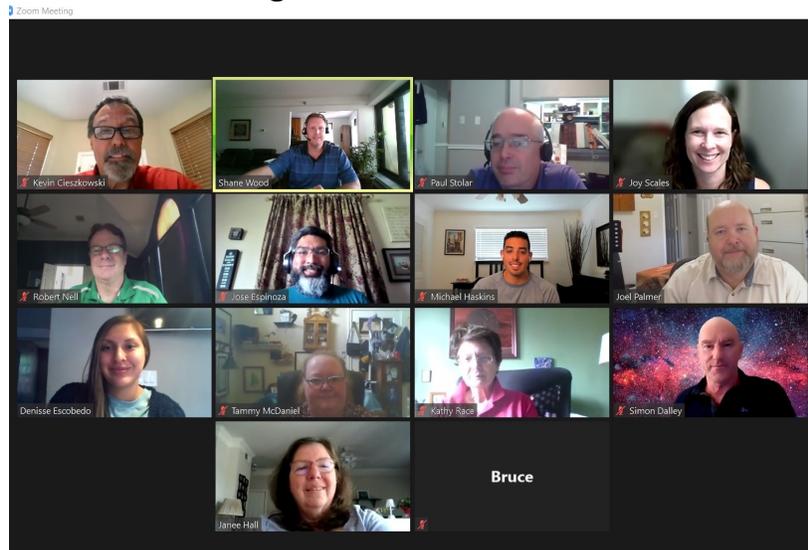




QuarkNet Annual Report  
Southern Methodist University  
Summer 2021

The SMU Particle Physics group sponsored its annual QuarkNet teachers' workshop July 12-14. This year we hosted a group of 11 teachers from Dallas area public and private schools and 4 QuarkNet fellows. Due to COVID-19 restrictions, we held a Virtual Enquiry-Based Learning workshop. Shown below are participants in the Zoom meeting.



<https://quarknet.org/content/smu-virtual-summer-workshop-2021>

The afternoons were taken up with a coding workshop for physics teachers, led by QuarkNet fellows Joy Scales, Tiffany Coke and Jeremy Wegner. This included an introduction to Jupyter by modeling kinematic graphs, as well as handling data from CERN, star catalogs, and tectonic plates. QuarkNet staff member Shane Wood led various online data activities, including Shuffling the Particle Deck, Quark Workbench, Rolling with Rutherford, as well as introductions to the MINERvA master class and World Wide Data Day. SMU faculty also gave presentations and took questions on their research. Dr. Joel Meyers spoke on *Echoes of the Big Bang* while Dr. Krista Lynne Smith spoke on *Black holes and the galaxies they live in*.

*The SMU QuarkNet center is organized by Dr. Simon Dalley and funded by the National Science Foundation. <http://smuphysicsweb.wixsite.com/quarknet>*