



QuarkNet Annual Report
Southern Methodist University
Summer 2020

The SMU Particle Physics group sponsored its annual QuarkNet teachers' workshop July 13-17. This year we hosted a group of 11 teachers, mostly from Dallas area public and private schools. Due to COVID-19 restrictions, we held a Virtual Enquiry-Based Learning workshop. Shown below are the participants in the Zoom meeting.



The main activity, led by Shane Wood (QuarkNet Staff) and Michael Madden (QuarkNet STEPUP Fellow) introduced the teachers to the [STEP UP program](#) – inspiring young women to pursue physics in college. Participants also shared their resources for physics activities for the remote classroom. Joel Palmer's introduced Electricity Role Cards while Robert Nell demonstrated some Electric Circuits PheTs. Kevin Cieszkowski presented Concept Builder, Paul Stolar on Energy PheTs, and Michael Haskins gave an overview of Pivot Interactives and Physics Aviary. Tammy McDaniel talked about Gizmos, while John Thompson presented on FALSTAD and THINGIVERSE, as well as returning to the role that phone sensors can play in the (virtual) classroom. Janee Hall gave a report on her activities at the **Quarknet Coding Camp**. Finally, mentor Simon Dalley had the participants perform some virtual labs on Measurement Error and on the Hydrogen Spectrum.

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