

Abstract Submitted
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An Online Master's in Physics for High School Physics Teachers

WILLIAM NEWTON, ROBYNNE LOCK, BAHAR MODIR, Texas AM University-Commerce — I will report on the progress of a new online Master's in Physics designed specifically for in-service high school physics teachers. Piloted as six face-to-face courses to an initial cohort of 7 in 2014-15, there are currently over 60 students enrolled from 16 different states and 3 countries. The program is intended to help physics teachers by reinforcing their content knowledge, introduce them to advanced physics topics, enhance their teaching by studying the content through the lens of physics education research, and provide access to teaching resources and a community of fellow physics teachers with whom to share ideas and support. In this talk we discuss the challenges of creating a physics Master's program to meet the needs of the physics teachers and cater to a variety of backgrounds, give an overview of the content of our classes, and report on the successes of the program.

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