

Abstract Submitted  
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**TA Mentorship in Lecture significantly enhances students' learning in mechanics in large introductory physics classes**<sup>1</sup> K. CHENG, MEHMET CAGLAR, Texas Tech University — Lab is an important component of students' learning in a traditional lecture-lab setting of introductory physics courses. Using standard mechanics concepts and baseline surveys as well as independent classroom observations, the effects of TA mentorship in Lecture on students' learning of physics concepts and problem-solving skills among different student subgroups taught by other TAs and lecturers using different level of student interactive engagement in classes have been analyzed. Our data indicate that in lecture training of TA promotes lecture/lab synergism in improvement students' learning of mechanics in large introductory physics classes.

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