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Examining Ethiopian Physics Teachers' Conceptual Understanding and Pedagogical Content Knowledge in Mechanics

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Poor student physics proficiency is a matter of concern in Ethiopia. This study explores in-service high school physics teachers' conceptual understanding, knowledge of students' understanding and teaching practices in mechanics in the context of Bahir Dar (Ethiopia) as a possible explanation. The FCI was administered in a three-tier approach with 11 teachers and interviews were conducted with 7 of them. Preliminary results indicate some limitations in subject matter knowledge, knowing students' learning difficulties and appropriate teaching strategies.

Education level

Pre-service and in-service teacher education

Physics topic

Other

Research focus

Student conceptions / Preconceptions / Misconceptions

Research method

Mixed method (qualitative & quantitative)

Organizing preference criteria

Research focus

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