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Ciclo Hablemos de Física, Facultad de Ciencias Físicas (UCM)*

Teaching Students to Think Like Physicists

Carl Wieman

*Physics and Education, Stanford University
Nobel Prize in Physics, 2001*

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Aula Magna Blas Cabrera Fac. de Ciencias Físicas UCM,
Plaza de las Ciencias, 1 28040-Madrid*

Resumen

Research has provided valuable insights as to the nature of physics expertise (*i.e.* the details of what is involved in thinking and making decisions like a physicist), and how these capabilities are developed. These insights provide guidance for improving the teaching and measuring physics learning for all levels of university students. I will show how to apply these concepts in a variety of different physics courses from introductory to advanced, and some of the research showing the relative effectiveness of different methods of teaching physics.

The talk is meant to be followed by a round table discussion with physics lecturers and students.