Unapologetically content-driven: The Twente Applied Mathematics Talent Programme

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Abstract

The construction principles behind a three-day course for high school finalists with outstanding grades in mathematics and physics, which each year attracts 100 students from Germany and the Netherlands, are outlined. The student response to the application of the same principles to the first-term lectures and tutorials in our bachelor programme indicates that those principles, or at least our implementation of these principles, are equally motivationally attractive and academically beneficial to a less elite audience.

Short biography

Frederic P. Schuller received his PhD from the University of Cambridge and is currently a professor of applied mathematics at the University of Twente. He designed numerous extensive mathematics courses for top-one-percent students worldwide on the invitation of leading institutions, including the American Mathematical Society, Studienstiftung des deutschen Volkes, the US Mathematics Olympiad Team and the Bavarian Elite Graduate Programme. In 2016, he received Germany's national Ars Legendi university teaching prize.

