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## Spacetime globe: a teaching proposal for the didactics of Special Relativity

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Special Relativity introduces students to Modern Physics, whose importance in the Italian High Schools is increasing. Nevertheless to face the difficulties both teachers and students encounter different solutions have been developed.

We present an experimentation regarding the teaching of Special Relativity we performed in last year classes of High Schools, namely those specializing in scientific studies. In this project a mechanical instrument was used which allows to explain and show Lorentz's transformations, exploring by hands the effects of a change of reference frame. Teachers and students were able to deal "by eye" with relativistic phenomena.

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