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## Particle Physics Outreach Activities at IFUSP: dialogues with the schools

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The High Energy Physics Instrumentation Center (HEPIC) of Physics Institute of University of São Paulo (USP) has produced - in recent years - different outreach activities, focusing to promote a dialogue between scientists and school actors (teachers and students). These actions generated different publications and educational proposals to teach particle physics - specially high energy physics - to students and teachers of the public schools of São Paulo. According to debates produced by authors like Levy-Léblond (2004) and Klein (2013), it is important to reduce the gap between physicists and society, in order to improve the scientific culture of students. The purpose of this presentation is to analyze the Masterclasses Hand On Particles Physics - CERN - ALICE and a teacher training course developed in this context. The results obtained indicate that an important aspect of Nature of Science promoted in these activities is the understand of science as a knowledge produced by a community. In particular, the role of cultural acquisition of these interactions is recognized as a determining factor for overcoming the stereotypes of scientists and the recognition of national science (Watanabe, 2015).

Lévy-Leblond, J. M. (2004). Science in want of culture. France: Futuribles.

Klein, E. (2013). Comment dire avec des mots ce don't parle physique? In M. F. Chevallier; J. M. Dabadie (orgs.). Partager la science (pp 97-119). France: Actes Sud.

Watanabe, G. (2015). A divulgação científica produzida por cientistas: contribuições para o capital cultural. (Tese de Doutorado em Ensino de Física), Instituto de Física, Universidade de São Paulo, São Paulo.

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