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Principles and Equations of Physics

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Each discipline has its own particular way of approaching the world that, although does not present great shortcuts or royal roads, is linked by indissoluble threads to other disciplines in a network that evolves and creates new connections that highlight its limits and potentiality, and, above all, its human aspects. We will discuss a didactic project of the University of Milan, addressed to high school students and teachers, titled “Principles and Equations of Physics”. The aim of the project is to provide students with opportunities for orientation and help them grasp the charm, the creative and the exciting aspects of physics in a surprising humanistic, cultural landscape that identifies a scientific theme starting from the history of physics seen as a complex path of logical, philosophical, musical, literary type that describes a development process of the whole mankind. So far the project has had two editions, one about Newton’s laws of motion and the other about Maxwell’s equations, which, given the pandemic, were carried out remotely. Each edition consisted of 5 to 8 online meetings one hour and a half each that were held by two voices (the author of this communication together with a professional actor) and were attended by more than 650 teachers and students per each meeting. The potentiality and peculiarities of the project will be presented together with some of its first results.

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