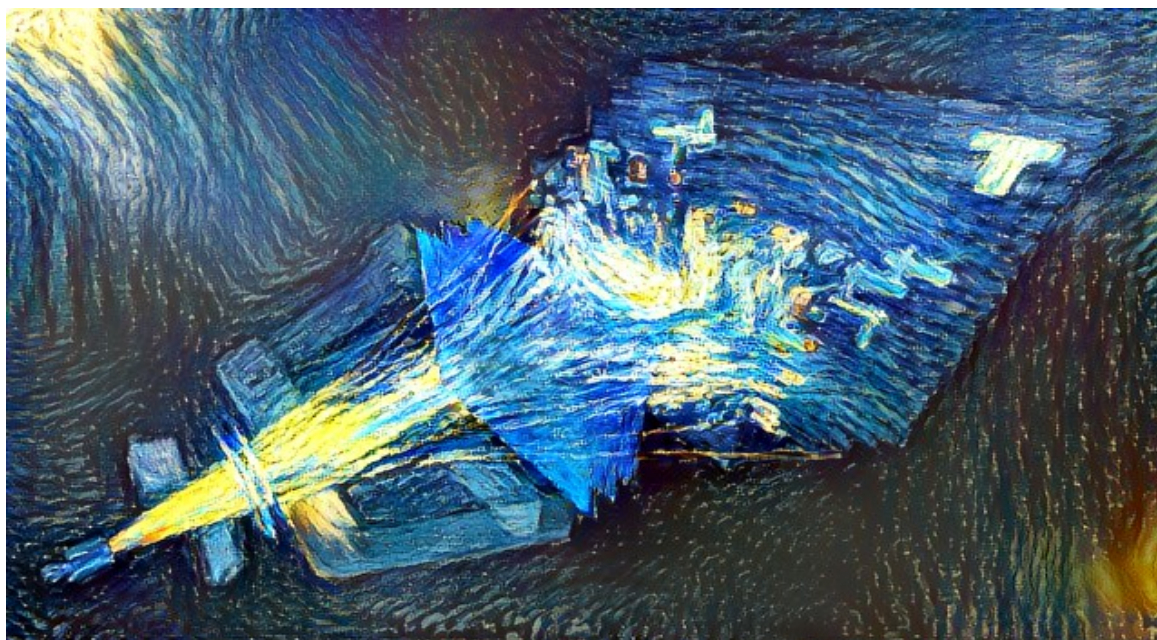# Study Machine Learning through HEP.

Andrey Ustyuzhanin (Yandex)

Tuesday, 14 February 2017, 16:45 h, DESY Auditorium

Applications of advanced machine learning (ML) techniques become more and more widespread in everyday life. Natural sciences, being one of the best places to test new approaches, benefit greatly from this development. In my talk I will briefly cover several problems that are characteristic for the High-Energy Physics: trigger systems optimization, and data certification pipeline automation. Then I'll show how those challenges can be addressed from Machine Learning perspective. Examples of advanced applications of traditional ML approaches to offline data analysis will be given. Also I will cover some tools that allow for significant simplification of data analysis code sharing and collaboration. The solutions to be described have been developed by Yandex research team in collaboration with LHCb and are used as materials for training course on practical applications of Machine Learning at Yandex School of Data Analysis.

- **Coffee, tea and cookies will be served at 16:30h**

- **After the seminar there is a chance for private discussions with the speaker over wine and pretzels**

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