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# Alice Master Classes

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## Title: ALICE educational material - short films for high-school students and physics teachers

### Description

Short classes by physicists conducting the masterclasses sessions, i.e. experienced with general public audience. Example: Looking for strange particles with ALICE

<http://aliceinfo.cern.ch/Public/MasterCL/MasterClassWebpage.html>

1. Introduction to first part of the exercise : what are strange particles,  $V_0$  decays, invariant mass.
2. Introduction to second part of the exercise : strangeness enhancement; centrality of lead-lead collisions; explanation of efficiency, yield, background etc
3. Demonstration of the software for the 1st part of the exercise - visual identification of  $V_0$ s
4. Demonstration of the software for the 2nd part of the exercise - invariant mass spectra - background subtraction and calculation of number of Kaons, Lambdas, antiLambdas.

### Duration:

Series of short films or presentations with voice-over (3 minutes each) order is important (e.g. ALICE experiment example below).

### Public

World-accessible, made for high-school students participating in (international) masterclasses; also for high-school physics teachers participating in masterclasses sessions.

### Material

Slides and screen capture by expert physicists in the outreach programme and students walking the public through the software installation.

### CERN video content owner

Despina Hatzifotiadou for ALICE outreach

### Video Discussion

*use the attach button below to upload the video to this page. Then copy/paste the %ATTACHURL% url the video tag above*

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