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## New concepts of timing calibration systems for large-scale Cherenkov arrays in astroparticle physics experiments

*Thursday 30 July 2015 15:30 (1 hour)*

We present new concepts of timing calibration systems for large-scale Cherenkov arrays in astroparticle physics experiments like Cherenkov arrays detecting extensive air showers (EAS) and water Cherenkov neutrino arrays. The concepts are based on a fast powerful LED light source on board of a pilotless remotely controlled helicopter in case of EAS Cherenkov arrays and on multiple LED sources driven by a single driver. We describe parameters of LED sources developed especially for these kinds of applications and discuss some preliminary results of laboratory and in-situ tests.

### Collaboration

– not specified –

### Registration number following "ICRC2015-I"

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