

Review of NA48 CP violation measurements with neutral and charged kaons

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The NA48 experiment at the SPS was designed in the early nineties to solve the issue of the existence of direct CP violation, and to measure it with high precision.

The development of an intense beam, an ensemble of detectors providing state-of-the art resolution, and a performant data acquisition system, allowed to perform several other CP violation measurements to be performed.

After the completion of the above program, the switch to a unique configuration with twin charged kaon beams allowed accurate searches for further CP violation effects, exploiting unprecedented statistics and systematic control thanks to a highly CP-symmetric design.

The CP violation measurements obtained from almost a decade of data collection will be reviewed.

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