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Development of Optical Positioner for the Double Chooz Experiment RADOVAN MILINCIC, Drexel University/Gloucester County College, DOUBLE CHOOZ COLLABORATION — The Double Chooz experiment will measure or put a limit for the neutrino mixing angle theta13. Level of precision of less than 0.6%, not seen in any earlier reactor neutrino experiments is required for successful measurement. In order to achieve such a low level of systematic error, Double Chooz detectors will be thoroughly calibrated. Position of the calibration devices used must be precisely known both for safety reasons as well as for effectiveness of calibration. Optical positioner will be deployed along with the full volume calibration system and will be used for independent position check of the calibration device using charge information from PMTs. In my talk I will present the current status of the development of optical positioner along with the simulations used to optimize the design.

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