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Title: Results of reduction of photographic plates taken with 26-inch refractor in Pulkovo observatory

Abstract: We present the results of narrow-field reduction for about 8000 photographic glass plates taken with the Pulkovo 26-inch refractor in the period from 1958 to 2007 years. They contain the images of double stars, included in the current version of Pulkovo Double Stars Catalogue. Three machines participated in digitizing: Ascorecord (till 1996 year), Fantasy and Flatbed scanner (up to date).

The mean errors at measuring the relative distances and positional angles of double star components are presented for all machines. Additionally, for the best comparison, the same plates are chosen, where it is possible, to find the systematic differences between the measurements with these machines (including more than 300 plates for Fantasy and flatbed scanner).