S17b The Second-Epoch VSOP Observations of a Superluminal CSS Quasar 3C 380 – Evidence for a Swinging Jet –

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Following the first-epoch VSOP observations, we have conducted the second-epoch observations toward 3C 380. The basic structure, which consists of an unresolved core, wiggling jets, and several knots along the jet stream, are consistent with that of the first epoch. Very straight ballistic motions of the knots are confirmed. We detected an emergence of a new knot component. This indicates that 3C 380 is still active. The direction of the new knot with respect to the core is in p.a.= 320° while other knots within 10 pc from the core align in p.a.= 330° . We determined each epoch of ejection for each component based on a linear fit for the apparent motion, and found that the direction of the jet is approximately a sinusoidal function of the ejection epoch. This means that the nozzle of the jet is swinging with the period of ~ 70 yr.