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A VLBI Study of the Jet in the Quasar 3C263[1]

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We report multi-frequency observations of the quasar 3C263 that were made with the NRAO VLBA from 2010 to 2014. These observations were compared to previous results over three decades from 1981 to 2010. The jet was studied by observing flux density outbursts to determine the kinematics of the components. The data from 2010 to 2014 suggest four superluminal jet components with velocity ranging from 4.0c to 5.6c, as well as one inner swinging component next to the core at 0.04c. The position angle of the swinging component varies by 15 degrees within 1 milliarcsecond from the core. These findings will be discussed in terms of relativistic jet models that incorporate time-variable direction of component ejection.

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