

Abstract Submitted
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Galactic Arms of Spiral Galaxies Originated From External Orbits STEWART BREKKE, Northeastern Illinois University (former grad student)
— Due to the Big Bang galactic arms were orbiting each other in sets of two or more. As the orbits decayed due to gravitational attraction, they tangentially collided and attached in their fore-sections forming spiral galaxies which began rotating transforming the orbital motion of the pre- galactic arms into rotational motion of the newly formed spiral galaxy. One can observe that the galactic arms originated from external orbits in the existing galaxies such as M51, M99, M83, M101, NGc 1232 and NGC 1365 among many others in the universe.

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