

Abstract Submitted
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Two Armed Spiral And Two Armed Barred Spiral Galaxy Forms Are Universal Patterns In Nature Appearing A Cup of Instant Coffee On A Small Scale And In Space On A Grand Scale STEWART BREKKE, Northeastern Illinois Univ (former grad student) — After putting a teaspoonfull of old powdered coffee creamer into a cup of recently prepared instant coffee I stirred and first the powdered coffee creamer formed a number of pairs of short concentric longitudinal sections which orbited the rim of the coffee cup as the instant coffee swirled around the cup. As the instant coffee and concentric longitudinal coffee creamer sections slowed down in the coffee cup, the orbits of the concentric creamer strands decayed and tangentially accreted in their fore sections forming a set of perfect two armed spiral and two armed barred spiral coffee creamer galaxies which after formation began to rotate. The rotation was due to the transformation of the orbital angular momentum of the pre formed coffee creamer galactic arms into the rotational motion of the newly formed perfect two armed spiral and two armed barred spiral galaxies. The equation for this origin of rotation and galactic rotation is $I\omega_{newgalaxy} = I\omega_{arm1} + I\omega_{arm2}$: if $I\omega_{arm}$ is the orbital angular momentum of each of the pre galactic arms and $I\omega_{newgalaxy}$ is the rotational angular momentum of the newly formed coffee creamer galaxy. It appears that the two armed and two armed barred spiral galaxy forms are universal patterns in nature.

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