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Minimal Pseudo-triangulation of the Hopf Map and Its Uniqueness.

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The Hopf map is a continuous map from the 3-sphere to the 2-sphere, exhibiting a many-to-one relationship, where each unique point on the 2-sphere originates from a distinct great circle on the 3-sphere. This mapping is instrumental in generating the third homotopy group of the 2-sphere. In this talk, I will present a minimal pseudo-triangulation of the Hopf map and establish its uniqueness. Additionally, I will show that the pseudo-triangulation corresponding to the 3-sphere is susceptible to a 4-coloring.

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