A Simple Maximality Principle

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The Maximality Principle I propose, following an idea of Christophe Chalons, asserts that any sentence that holds in some forcing extension V^P and all subsequent extensions V^{P*Q}, holds already in V and all forcing extensions of V. The principle is naturally expressed by the modal logic axiom '$(\Diamond\Box\phi)$ implies $\Box\phi$)'. In this talk I will prove the relative consistency of the Maximality Principle and analyze its relative consistency strength, showing it to be closely related to the scheme asserting that V_δ is an elementary substructure of V.

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