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*CP<sub>2</sub> is unique choice because*

1. *CP<sub>2</sub> geometry codes for standard model quantum numbers meaning that CP<sub>2</sub> isometries code for color quantum numbers and weak quantum numbers.*
2. *CP<sub>2</sub> spinor connection induced to space–time surface gives rise to classical electro–weak gauge potentials.*
3. *CP<sub>2</sub> allows the identification of classical color gauge potentials as projections of Killing vector fields of color group.*
4. *CP<sub>2</sub> is the unique 4–D compact space allowing twistor space with Kähler structure (while M<sup>4</sup> is the unique 4–D space with Minkowski signature allowing twistor structure).*
5. *CP<sub>2</sub> allows number theoretical interpretation of standard model symmetries.*