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$M^4$  is unique choice because

1. The isometries of  $M^4$  code for classical conserved charges : 4-momentum and angular momentum.
2. The boundary of light- cone of  $M^4$  is metrically 2-dimensional (one direction is light-like) so that the huge conformal  $D$  complex spaces generalize making possible the construction of quantum TGD.
3.  $M^4$  is the unique 4-D space with Minkowski signature of metric allowing twistor space (having also Kähler structure).
4.  $M^4$  allows number theoretical interpretation as hyper - quaternionic space.