

$$M^6 \text{ hol SU}(3) : \begin{cases} \omega & 2 \text{ form} \\ \varrho & 3 \text{ form} \end{cases}$$

$$M^7 \text{ hol } G_2 : \varphi \text{ 3 form } / d\varphi = \overset{*}{d}\varphi = 0$$

$$M^8 \text{ hol Spin}(7) : \varphi \text{ 4 form } / d\varphi = 0$$

oriented hypersurfaces $M_- \sqsubset M$

$$M^6 \text{ hol SU}(3) \Rightarrow M_-^6$$

$$M^7 \text{ hol } G_2 \Rightarrow M_-^7 \text{ half-flat hol SU}(3) : d\varrho = 0 : d\omega \wedge \omega = 0$$

$$M^8 \text{ hol Spin}(7) \Rightarrow M_-^8 \text{ cocalibrated hol } G_2 : \overset{*}{d}\varphi = 0$$