

$${}^{xy}\mathcal{Z} = {}^x\mathcal{O}^\alpha {}^y\mathcal{Z}_\alpha + {}^x\mathcal{X}^\beta {}^y\mathcal{Z}_\beta + {}^x\mathcal{Z}^\gamma {}^y\mathcal{X}_\gamma + {}^x\mathcal{Z}^\delta {}^y\mathcal{O}_\delta$$

$H_{\mathbb{R}}^p \ni {}^y\mathcal{Z}$  basic harmonic p-forms

${}^y\mathcal{Z}$  closed/co-closed

2 forms =  ${}^x\mathcal{X}^\beta$  massless vectors

1 norms=gravitino super-partners

$$H_{\mathbb{R}}^1 = 0$$