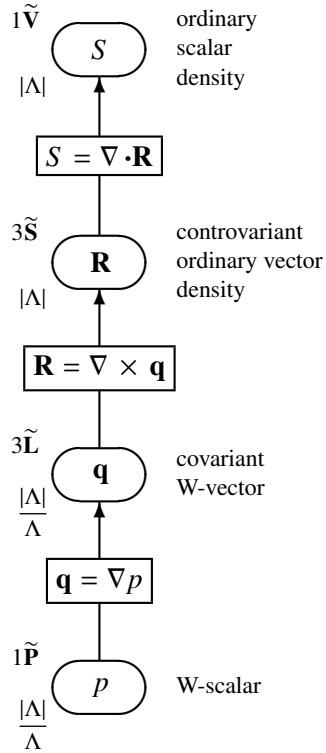
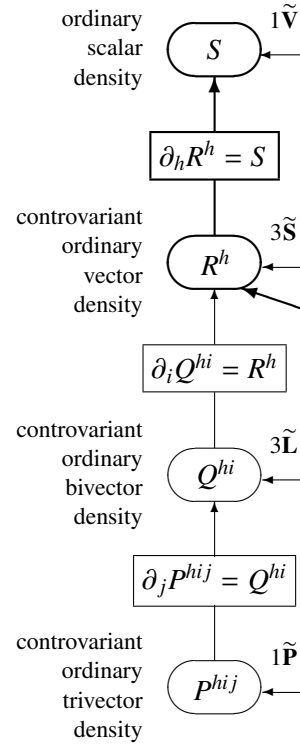


### Mathematical objects in 3D of the dual cell complex (outer orientation)

standard column  
(metric column)



contravariant multivector densities  
weight factor:  $|\Lambda|$



algebraic dual

$$S = \frac{1}{3!} \epsilon^{rst} s_{rst}$$

$$R^h = \frac{1}{2!} \epsilon^{hrs} r_{rs}$$

$$Q^{hi} = \frac{1}{1!} \epsilon^{hir} q_r$$

$$P^{hij} = \frac{1}{0!} \epsilon^{hij} p$$

covariant W-multivector  
weight factor:  $\frac{|\Lambda|}{\Lambda}$

