TDA - filament network classification

November 2019

$$\{X_{i,C_{825}}...X_{50,C_{825}}, X_{i,C_{1650}}...X_{50,C_{1650}}, X_{i,C_{3300}}...X_{50,C_{3300}}\}$$

$$\{X_{1,C_{825}}...X_{40,C_{825}}; X_{1,C_{1650}}...X_{40,C_{1650}}; X_{1,C_{3300}}...X_{40,C_{3300}}\}$$

$$\{X_{41,C_?}...X_{50,C_?}; X_{41,C_?}...X_{50,C_?}; X_{41,C_?}...X_{50,C_?}\}$$

$$\{X_{1,C_M}...X_{22,C_M}; X_{1,C_W}...X_{20,C_W}\}$$

$$\{X_{1,C_M}...X_{18,C_M}; X_{1,C_W}...X_{16,C_W}\}$$

$$\{X_{1,C_\theta}...X_{8,C_\theta}\}$$

$$\{X_{19,C_M}...X_{22,C_M}; X_{17,C_W}...X_{20,C_W}\}$$

$$\{D_{1,C_\theta}...D_{8,C_\theta}\}$$

$$\{X_{19,C_M}...X_{22,C_M}; X_{17,C_W}...X_{20,C_W}\}$$

$$\{D_{1,C_M}...D_{18,C_M}; D_{1,C_W}...D_{16,C_W}\}$$