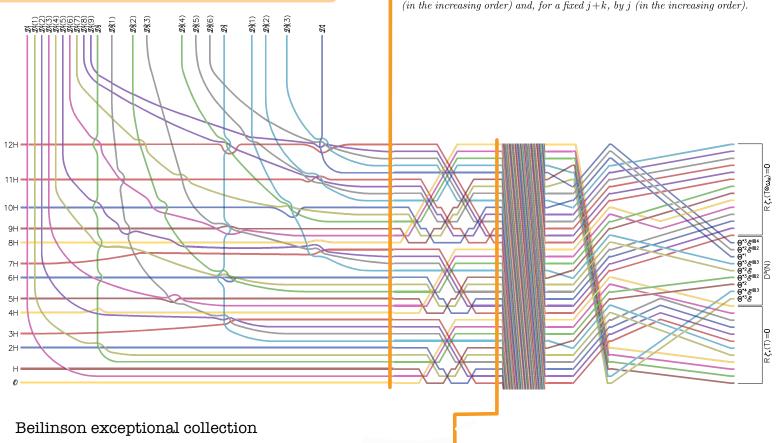
$$D^k = \{(D, F, s) : s|_D = 0\} \subset \operatorname{Sym}^k C \times M,$$

The Fourier–Mukai functor $\mathcal{P}_{\mathcal{D}^k}: D^b(\operatorname{Sym}^k C) \to D^b(M)$ is fully faithful for $k \leq g-1$ and $D^b(M)$ has a semi-orthogonal decomposition into admissible subcategories arranged into three mega-blocks, as follows:

$$\Big\langle \big\langle \boldsymbol{\Lambda}^{*j} \otimes \mathcal{D}^k \big\rangle_{\substack{j,k \leq g-2\\j,k \geq 0}}, \; \big\langle (\boldsymbol{Z} \, \boldsymbol{\Lambda}) \boldsymbol{\Lambda}^{*j} \otimes \mathcal{D}^k \big\rangle_{\substack{j+k \leq g-2\\j,k \geq 0}}, \; \big\langle (\boldsymbol{\theta} \, \boldsymbol{\Lambda}) \boldsymbol{\Lambda}^{*j} \quad \otimes \mathcal{D}^k \big\rangle_{\substack{j+k \leq g-1\\j,k \geq 0}} \Big\rangle.$$

Within each of the three mega-blocks, the blocks are first arranged by j + k (in the increasing order) and, for a fixed j+k, by j (in the increasing order).



Bondal-Orlov SOD (blow-up and standard flips)

 $D^b(M)$ has a semi-orthogonal decomposition into admissible subcategories arranged into three mega-blocks, as follows:

$$\bigg\langle \big\langle \boldsymbol{\Lambda}^{*k} \mathcal{F}^{*\boxtimes j} \big\rangle_{\substack{j+k \leq g-2 \\ j,k \geq 0}}, \ \big\langle (\boldsymbol{Z} \, \boldsymbol{\Lambda}) \, \boldsymbol{\Lambda}^{*k} \mathcal{F}^{*\boxtimes j} \big\rangle_{\substack{j+k \leq g-2 \\ j,k \geq 0}}, \ \big\langle (\boldsymbol{\theta} \, \boldsymbol{\Lambda}) \, \boldsymbol{\Lambda}^{*k} \mathcal{F}^{*\boxtimes j} \big\rangle_{\substack{j+k \leq g-1 \\ j,k \geq 0}} \bigg\rangle.$$

Within each of the three mega-blocks, the blocks are arranged first by k (in the decreasing order) and then, for a fixed k, by j (in the decreasing order).