## LME-MPM applied to quasi-brittle fracture

Miguel Molinos, Pedro Navas, Diego Manzanal and Manuel Pastor July 1, 2020

## **Highlights**

- Fracture mechanics within the MPM is a challenging research field
- The Eigensoftening algorithm is an improvement to simulate quasi-brittle materials
- The LME shape functions together with a NPC time integration enhance the standard MPM
- The Eigensoftening-MPM has been validated against analytical and experimental results