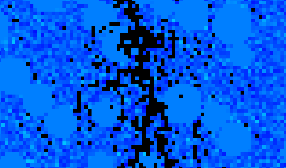
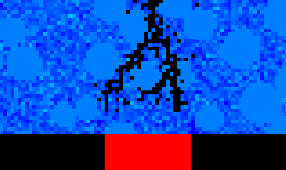
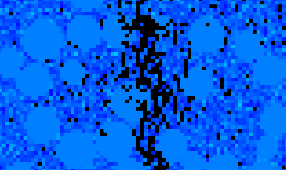
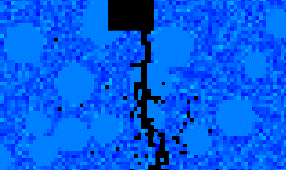
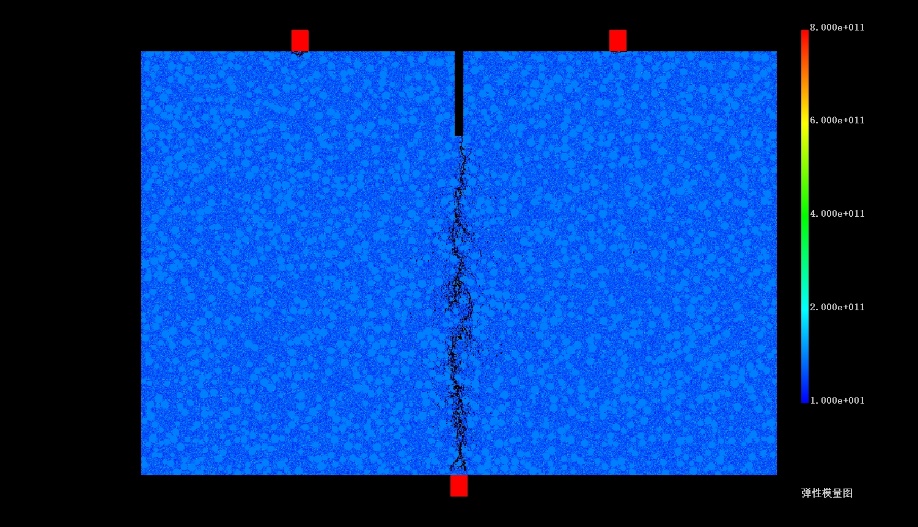
**Passing round**

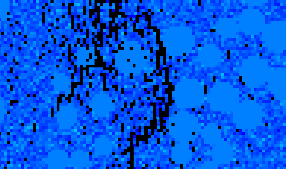


**Pass through**

**Crack-tip blunting**

**Extended-back**

**Crack-forking**



**Main crack**

**Secondary crack**

**Fig. 14 Fracture propagation modes influenced by coarse particles**