Dangers in Coordinated Crowd Movements

- Phenomenon during music festivals: "collective crowd motion"
- Similarities to 2-dimensional gas: 2 degrees of freedom,...
- Cellular Automaton also a possible model
- Additional considerations: (not included in gas model or automaton model):
 - Collective decision to perform circle pit
 - Long-distance influences
- Which positions are dangerous?
 - Discontinuity in dp/dx
- How dangerous is a collision?
 - Relative momentum
 - Velocity and acceleration
- Is it safer to take part?
- Comparison to occurred accidents

