1. Liou: Instability of present LEO Satellite Populations
   1. Collision categories
      1. Catastrophic
         1. Greater than 40 J/g
         2. Results in complete fragmentation of target object
      2. Non-Catastrophic
         1. Only minor damages
         2. Does not contribute to debris population
      3. Intact-intact
         1. Creates 2 debris clouds
      4. Intact-fragment
         1. Creates only 1 debris cloud