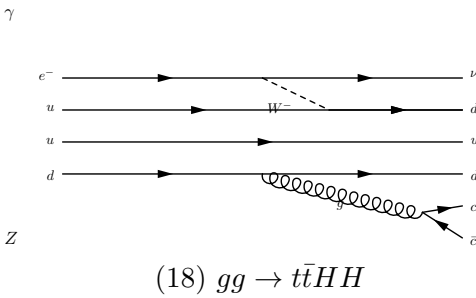
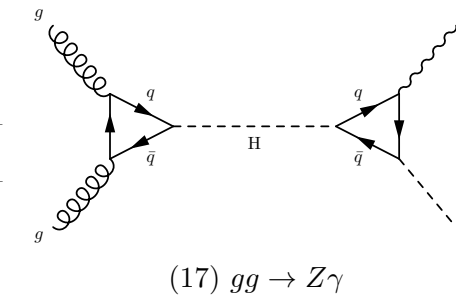
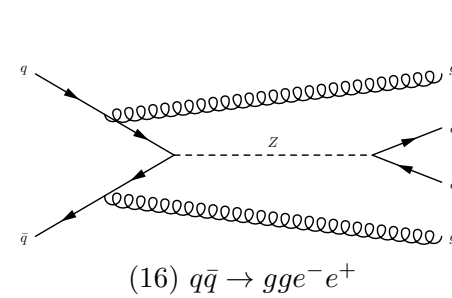
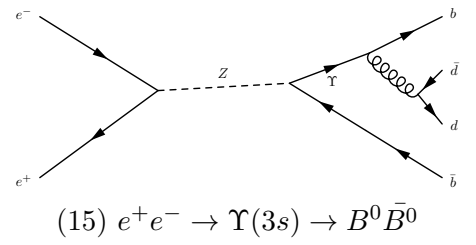
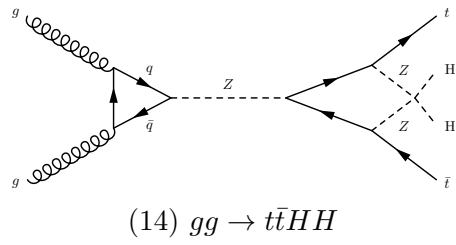
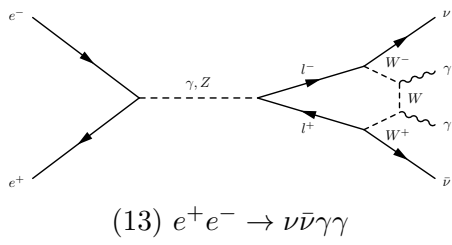
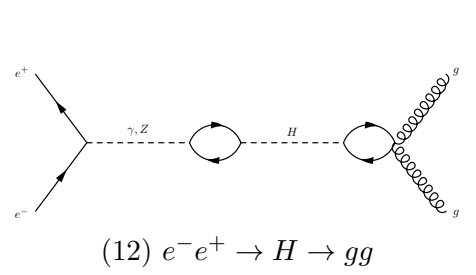
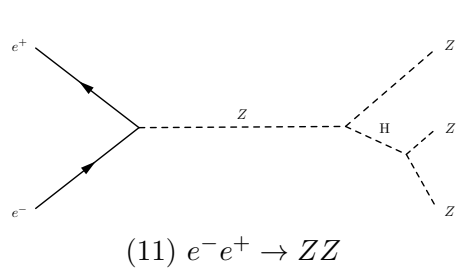
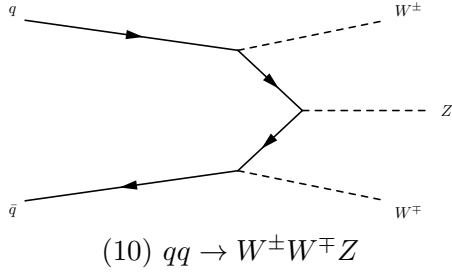
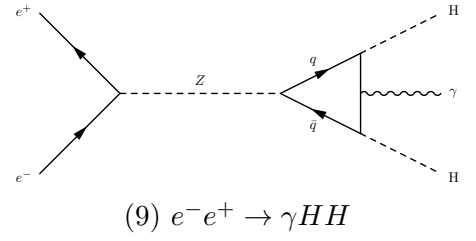
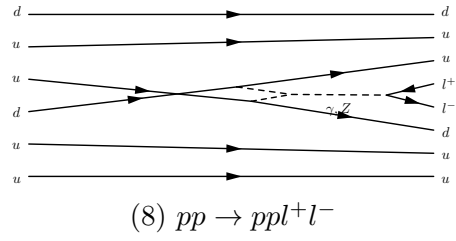
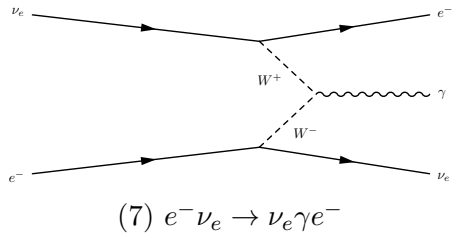
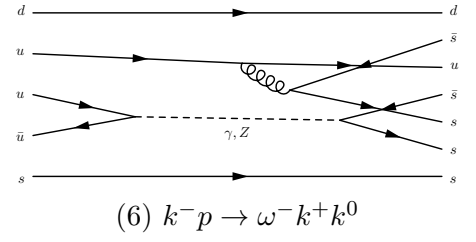
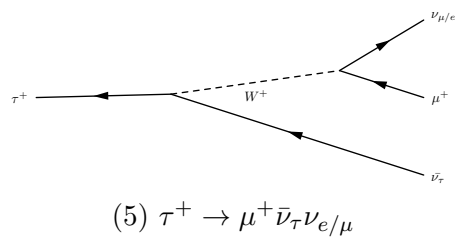
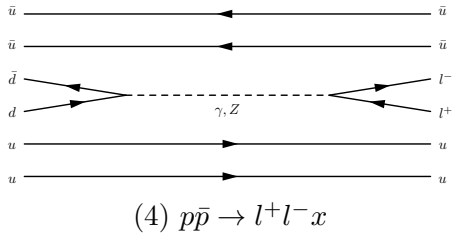
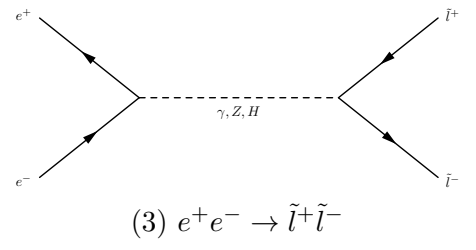
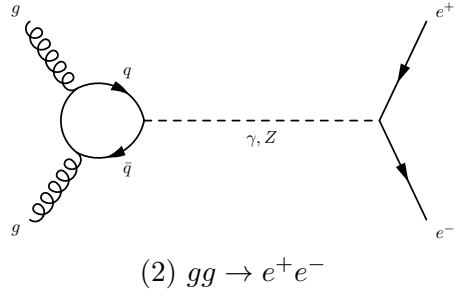
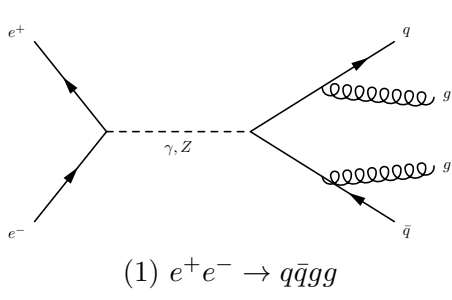
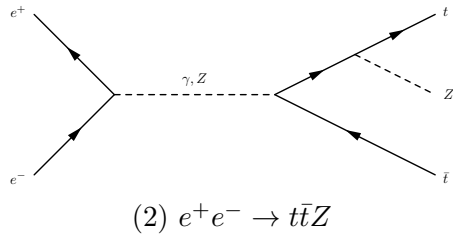
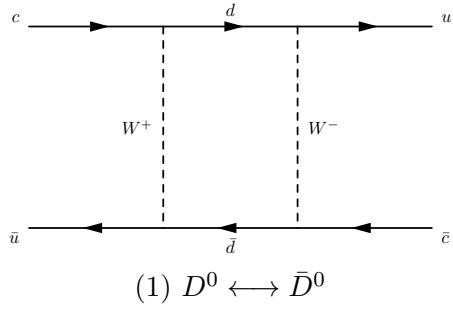


# 1 SM and beyond: Allowed, forbidden and discovery process

1.
  1.
    - Electromagnetic
      - 1, 2, 3, 4, 6, 8, 11, 12, 13, 14, 15, 16, 20
    - Weak
      - 5, 7, 10, 13, 18, 19
  2. Particle decay, lifetime and branching
  3. Conservation laws, suppression, etc.
  4. process 3,4,8,10,11, 14 and 18 more important





## 2 Top quark and W boson

### 3 Gauge theories