**QFT Perturbation Theory**

**Interaction Picture**

**Scattering Matrix**

**S-Matrix Expansion**

**S-Matrix Normalisation**

**Gell-Mann-Low Theorem**

**Wick-Isserlis Theorem**

**Feynman Diagrams**

**Full Propagator**

**Momentum Space Propagator**

**Particle Mass and Decay Rate**

**Wave Function Normalisation**

**Euclidean Momentum**