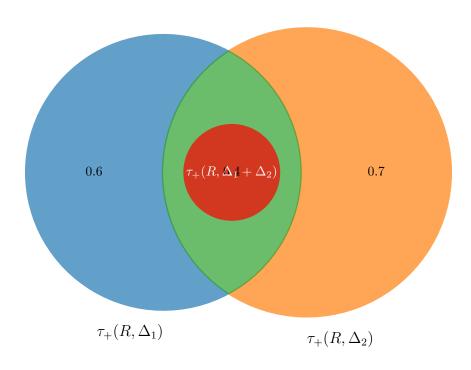
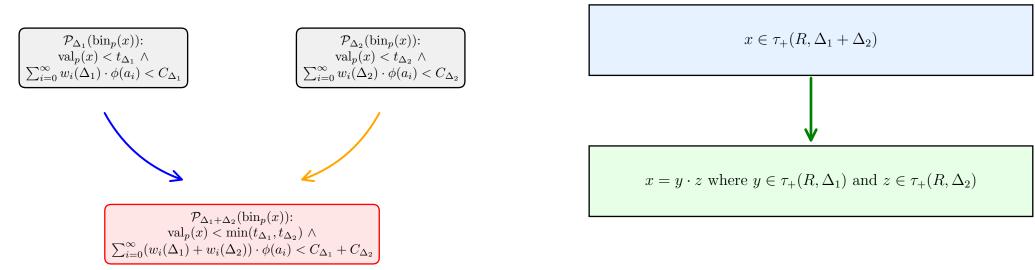
Set-Theoretic Representation of Subadditivity



Subadditivity Property: $\tau_+(R, \Delta_1 + \Delta_2) \subseteq \tau_+(R, \Delta_1) \cdot \tau_+(R, \Delta_2)$

Predicate-Based Representation

Constructive Factorization Approach



The subadditivity property is proved by constructively factorizing elements of $\tau_+(R,\Delta_1+\Delta_2)$ into products from the individual ideals.