

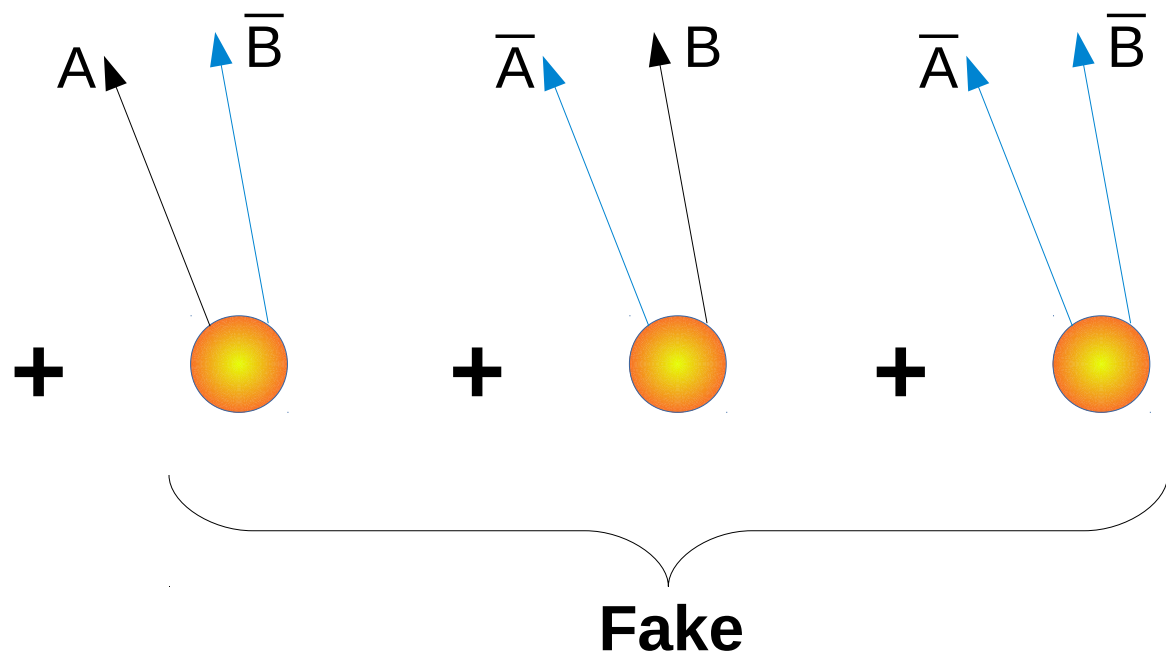
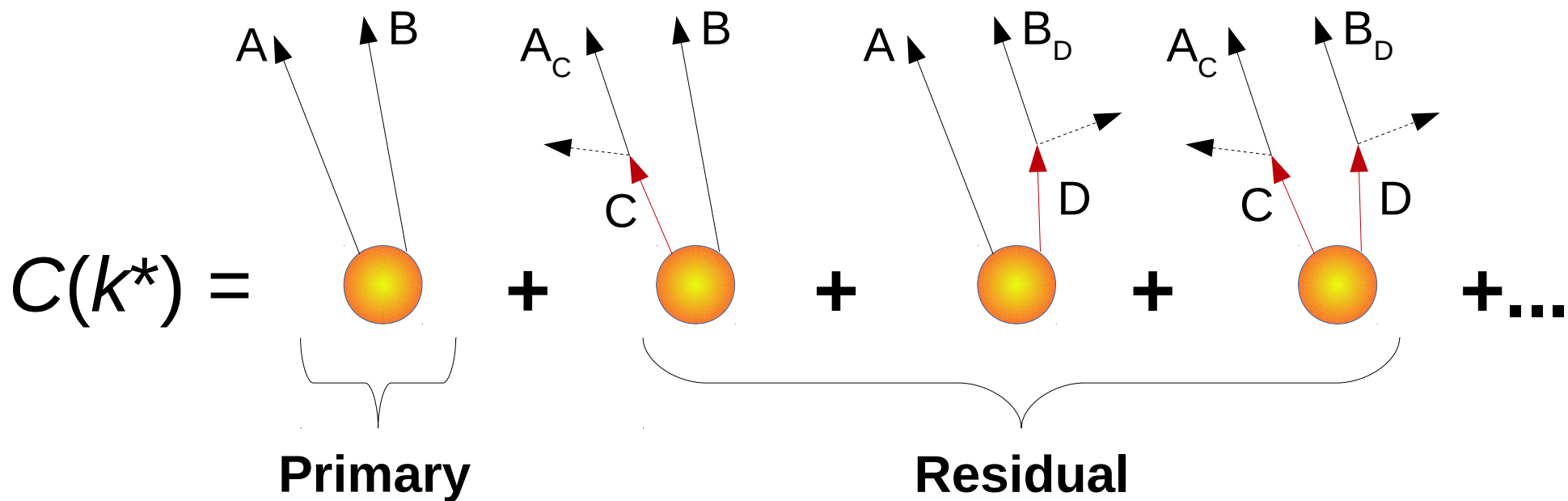
$$C(k^*) = \underbrace{\text{Primary}}_{\text{Primary}} + \underbrace{\text{Residual}}_{\text{Residual}} + \underbrace{\text{Fake}}_{\text{Fake}}$$

The diagram illustrates the decomposition of the cost function $C(k^*)$ into three components: Primary, Residual, and Fake.

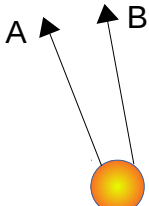
Primary: A single orange sphere with two black arrows labeled A and B pointing away from it.

Residual: A group of three orange spheres, each with two black arrows labeled A and B pointing away from it. Each sphere also has a red arrow labeled C pointing away from it. The first sphere has a dashed black arrow pointing left. The second sphere has a dashed black arrow pointing right. The third sphere has a dashed black arrow pointing right.

Fake: A single orange sphere with two blue arrows labeled \bar{A} and \bar{B} pointing away from it.

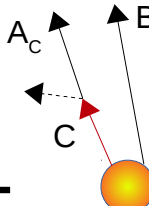


$$C(k^*) =$$

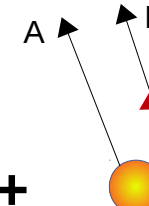


Primary

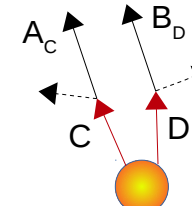
+



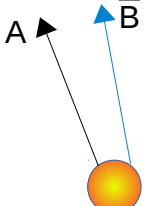
+



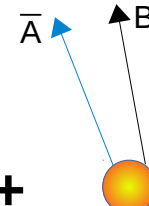
+



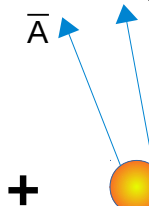
+



+



+



Fake

Residual