

## The problem with scattering

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I always had some dissonance with the fact that scattering by  $Z$  does not determine the scattering by  $\Delta(Z)$ . A possible resolution along the principles of cognitive dissonance is that we never really desired the latter; rather, given scattering for  $Z \in \mathcal{A}(\text{>—<})$  we'd like to understand the scattering by  $\cup Z \in \mathcal{A}(\text{≡})$ .

But then, if I understand scattering in  $\mathcal{A}(—)$  and in  $\mathcal{A}(—<)$  &  $\mathcal{A}(>—)$ , why can't I compose to get scattering in  $\mathcal{A}(\text{>—<})$  and then in  $\mathcal{A}(\text{≡})$ ?