

## **q-linear-sum**<sup>11,40</sup>

$\forall X, Y: (\mathbb{N} \rightarrow \mathbb{Q}), k: \mathbb{N}, y: (\mathbb{Q} \text{ List}).$

$(k \leq \|y\|)$

$\Rightarrow (\text{q-linear}(k; j.X(j) + Y(j); y) = (\text{q-linear}(k; j.X(j); y) + \text{q-linear}(k; j.Y(j); y)) \in \mathbb{Q})$