

## rv-disjoint-rv-partial-sum<sup>11,40</sup>

$\forall p:\text{FinProbSpace}, f:(\mathbb{N} \rightarrow \mathbb{N}), X:(n:\mathbb{N} \rightarrow \text{RandomVariable}(p;f(n))), N:\mathbb{N}, Z:\text{RandomVariable}(p;N),$   
 $n:\mathbb{N}.$   
 $(\forall i:\{0..n^-\}. f(i) < N)$   
 $\Rightarrow (\forall i:\{0..(n-1)^-\}. \text{rv-disjoint}(p;N;X(i);Z))$   
 $\Rightarrow (\forall k:\{0..n^-\}. \text{rv-disjoint}(p;N;\text{rv-partial-sum}(k;i.X(i));Z))$