$r_{x1}, r_{x2} \stackrel{R}{\leftarrow} \mathbb{Z}_N$ $[[x_1^{'m}]] = [[x_1']].[[r_{x1}]], [[x_2^{'m}]] = [[x_2']].[[r_{x2}]]$ $[x_1^{'m}]_1 = PartDec_{sk_1}([[x_1^{'m}]]), [x_2^{'m}]_1 = PartDec_{sk_1}([[x_2^{'m}]])$ $[x_{1}^{'m}]_{2} = PartDec_{sk_{2}}([[x_{1}^{'m}]]), [x_{2}^{'m}]_{2} = PartDec_{sk_{2}}([[x_{2}^{'m}]])$ $x_{1}^{'m} = FullDec([x_{1}^{'m}]_{1}, [x_{1}^{'m}]_{2}), x_{2}^{'m} = FullDec([x_{2}^{'m}]_{1}, [x_{2}^{'m}]_{2})$ $h = x_{1}^{'m}.x_{2}^{'m} = (x_{1}^{'} + r_{x_{1}}).(x_{2}^{'} + r_{x_{2}}) = x_{1}^{'}.x_{2}^{'} + x_{1}^{'}.r_{x_{2}} + r_{x_{1}}.x_{2}^{'} + r_{x_{1}}.r_{x_{2}}$ $[[h]] = Enc_{nk}(h)$ $s1 = [[r_{x1}.r_{x2}]]^{N-1}, s2 = [[x_1']]^{N-r_{x2}}, s3 = [[x_2']]^{N-r_{x1}}$ $[[h]].s1.s2.s3 = [[h - r_{x2}.x'_1 - r_{x1}.x'_2 - r_{x1}.r_{x2}]] = [[x'_1.x'_2]]$