

# Polynomial Degree De-duplication

## WITHOUT De-duplication

Legendre: deg 0, 1, 2, 3, ...

Chebyshev: deg 0, 1, 2, 3, ...

Hermite: deg 0, 1, 2, 3, ...

Remove\nRedundant



## WITH De-duplication

Legendre: deg 0, 1, 2, 3, ... (keeps 0,1)

Chebyshev: deg 2, 3, 4, ... (skips 0,1)

Hermite: deg 2, 3, 4, ... (skips 0,1)

Reason: deg-0 (constant) and deg-1 (linear) are same across all polynomial families