

$$\text{GP}_{i,j}[\underline{f}] := \text{Expand} \left[ \underline{f} / \cdot \left\{ u_j \mapsto (1 - t_i) u_i + t_i u_j, \right. \right. \\ \left. \left. \underline{f} \cdot v_j \mapsto f (1 - t_i) v_i + f t_i v_j + (t_i - 1) \left( t_i \partial_{t_i} f - t_j \partial_{t_j} f \right) u_i + f t_i u_i \right\} \right]$$