

Rota-Baxter Algebras

January 13, 2019 9:37 AM

$$P(f) = \int f$$

$$f * g = P(f' \circ g')$$

$$(uv)' = u'v + uv'$$

take $u = P(f)$, $v = P(g)$ and apply P to both sides:

$$P(f)P(g) = P(fP(g)) + P(P(f)g)$$