fun_thru_spread[12,41]

$\forall A$:Type, B:($A \to$Type), p:(x:$A \times B(x)$), C, D:Type, f:($C \to D$), b:(x:$A \to B(x) \to C$).
$f(\text{let } x,y = p \text{ in } b(x,y)) = \text{let } x,y = p \text{ in } f(b(x,y))$

ProofTree

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http://www.nuprl.org/FDLcontent/p0_942988_/p2_3690_{fun_thru_spread}.html