

All of these plots are at  $z=1$ . Emanuele's curves are orange. The blue curve is my brute force derivative, dashed red is my chain rule. The brute force and chain rule derivatives agree. The dashed green curves are equal to my blue curves multiplied by  $b^2$ . The green curves seem to be in agreement with Emanuele, with the exception of the derivative wrt to  $h$ . The black dashed curve in the  $dP_g/dh$  plot is calculated using the chain rule with  $dDdh = -0.61$ .

