Plot2D curve (u) vs first and second order Taylors-approx(u) first-order(u) second-order(u) 0.2 0.6 0 0.4 8.0 parameter (u)

0.00030

0.00028

0.00026

0.00024

0.00022

0.00020

0.00018

0.00016

0.00014

0.00012

0.00010

0.00008

first-order and second-order Taylors-approx(u)