Calculations of approximations for $\mathcal{F}_{\frac{1}{2}}(\eta)$ with and without k-transformations.

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Table.1. The obtained C's and a's in our paper (i.e. without k-transformation)

C1	C2	C3	C4
5795.540857	-8358.440387	7038.341888	-4474.679296
a1	**a2**	**a3**	**a4**
-0.099204871	-0.110982279	-0.15989276	-0.172816032

Table.2. The obtained C's and a's with k-transformation.

C1	C2	C3	C4
7067.44261461371	-10435.741105219	9690.61906405507	-6322.19794617126
a1	**a2**	**a3**	**a4**
-0.00992048714594	-0.011098227853958	-0.015989276244864	-0.017281603189133

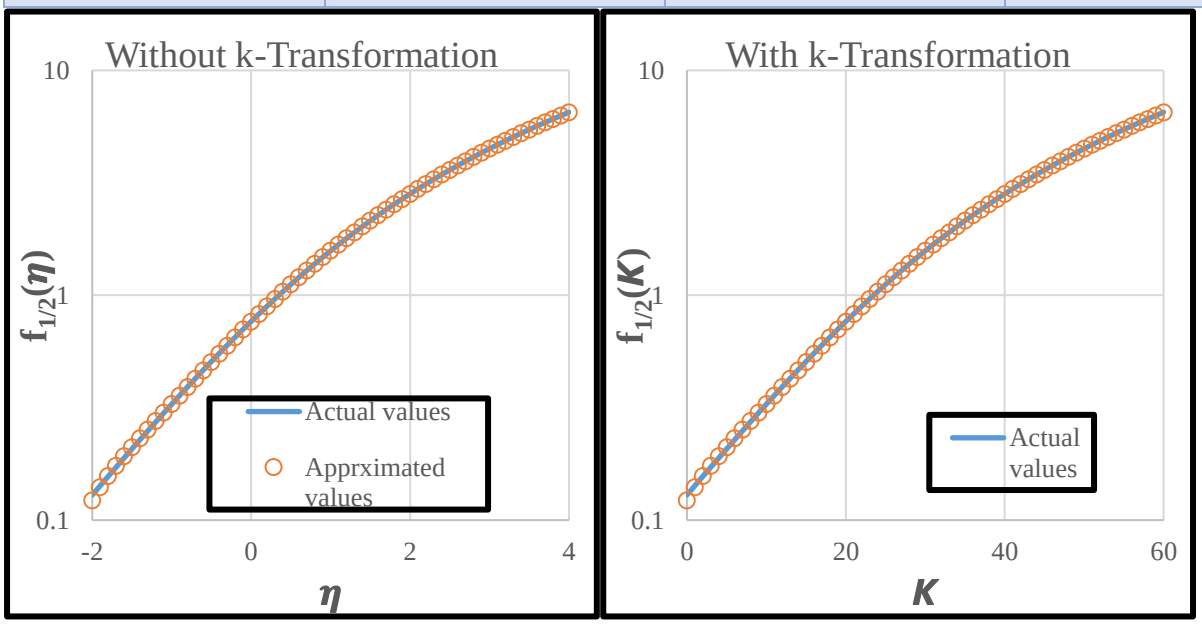

Figure.1. The approximation of FDI as a function of η and K using the coefficients from Tables 1 and 2.

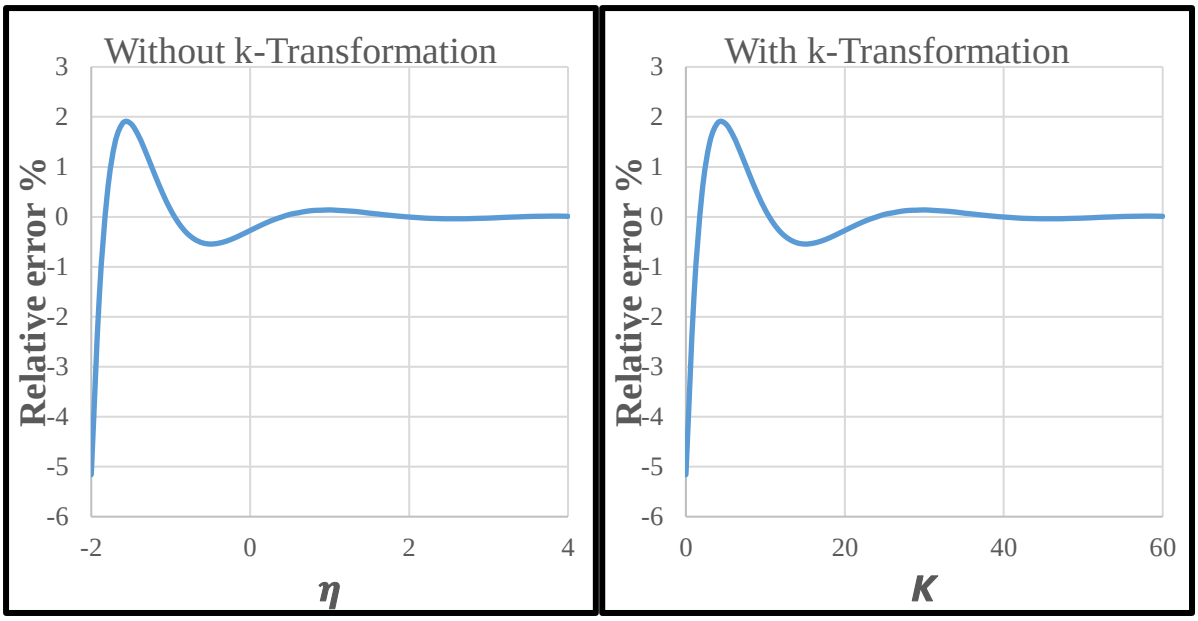

Figure.2. The difference in relative error profiles with and without k-transformation.

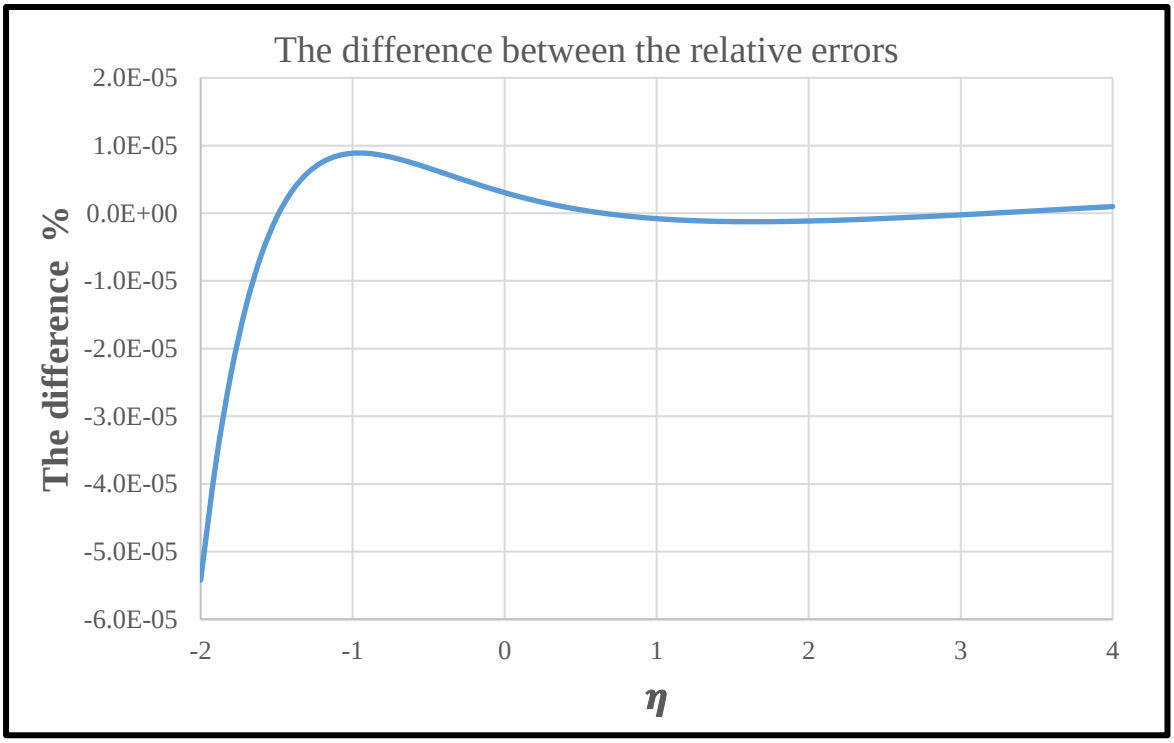

Figure.3. The difference between the relative errors for the calculations with and without k-trnasformation.