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3.2.2. Insel and Molland result's analysis

In this section, the experimental results are compared with the numerical results. The graphics of the fig 31 and 32 show the adimensional resistance for the weight in the Y axis (Rt/W), in function of Froude's number in the X axis in his adimensional form. This is calculated dividing the vessel maximum speed V (m/s) by the square of the length waterline Lwl (m) multiplied by the gravitational constant ($g=9.8$ m/s²)

$$Fn = \frac{V}{\sqrt{Lwl \cdot g}}$$

In the graphics of fig 31 the points corresponds to experimental results and the dashed line for the numerical results

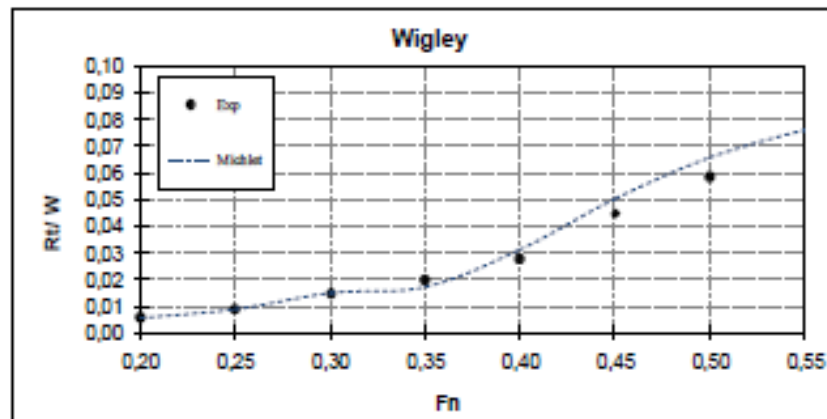


Figura 31-Ensaaios experimentais vs Michlet

In the graphics of fig 32, the points corresponds to experimental results and the dashed line for the numerical results

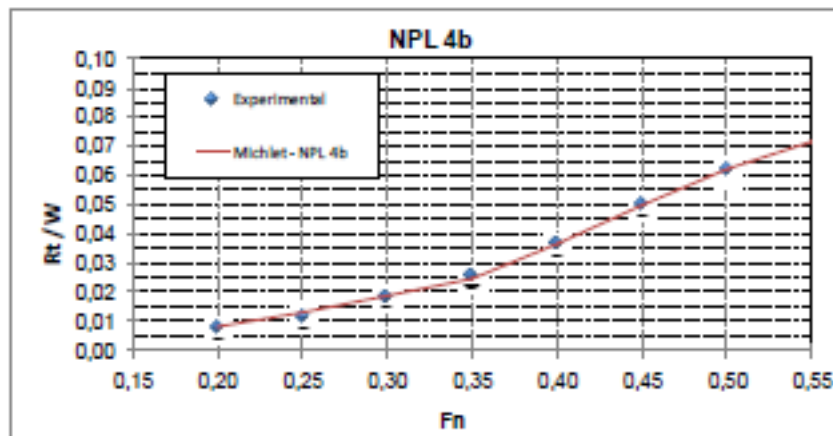


Figura 32- NPL4b Experimental vs Michlet

The obtained numerical results show a good correlation with the experimental data. Part of this good correlation could be explained by the thin shape of the used hulls