Subject: Re: Different ways to model tractive effort Posted by Thomas Nygreen JBD on Tue, 05 Mar 2019 13:20:27 GMT View Forum Message <> Reply to Message

Dear all,

The current railML2 valueTable could support any of the segmented functions listed by Laura and Jörg, if we for each row apply the formula $F = Sum (y_z * v^z)$ for all z where each value for z is given by columnHeader@zValue.

If no column header is found and only one column is given, we would assume z = 0, meaning that F = y. This allows programs to keep listing the tractive effort for small speed steps.

This approach would support any polynomial function, such as constant (only z=0), linear (0 and 1), quadratic (0, 1, 2) and cubic (0, 1, 2, 3), the simple hyperbolic (-1, 0) and quadratic hyperbolic (-2) listed by Laura and Jörg, and other simple rational functions where there is no shift of the x variable.