Dear all,

Suggested changes to section **3.2. Definitions.** of the motion:

I. First line in third paragraph under 3.2.1:

A **basic arithmetic operation** is one of the seven functions $+, -, \cdot, \div$, fma, square root, and the exact dot product (edot).

II. After 3.2.6. add:

For two n-tuples $x_i, y_i, i = 1(1)n$, the function edot computes the dot product $x_1 \cdot y_1 + x_2 \cdot y_2 + \cdots + x_n \cdot y_n$ exactly.

III. 3.2.7.:

**interval hull.** (short form: **hull.**, if any confusion can be excluded) When not qualified by the name of a finite-precision interval type, the interval hull of subsets **s** of $\mathbb{R}$ is the least upper bound of **s** in $\{\overline{\mathbb{IR}}, \subseteq\}$.

Rationale: In $\mathbb{R}$ the interval hull of subsets **s** of $\mathbb{R}$ is the convex hull. In the two or in higher dimensional cases the two hulls are different in general. In $\{\mathbb{PR}, \subseteq\}$ the hull of subsets **s** of $\mathbb{R}$ is the union.

IV. Delete 3.2.20.

V. Exchange 3.2.9. with 3.2.10.

Best regards
Ulrich