AnnoMathTeX

Wikidata Community Issues

- One community member argued that Wikidata should be usable independently of Wikipedia, not having to comply with the technical requirements for the special page display.

- It was pointed out that currently (as of December, 3rd 2020) in Wikidata of the items which have a formula, about 560 use 'calculated from' (P4934) and about 150 use 'has part' (P527). The claim was that 'has part' is only a relict from the past, which will not be used anymore for newly populated items.

- Studying some sample equations with 'calculated from' properties, another user found that for 'Gauss's law for magnetism' (Q1195250) with the formula $\nabla \cdot \mathbf{B} = 0$ calculated from 'magnetic field' B and 'divergence' $\nabla \cdot$ does not make sense. On the other hand it was asked if 'length' or 'time' was really a 'part of' 'acceleration'?

- In summary, concerns about the general validity of both properties were expressed.

- Furthermore, the coexistence and different benefits of the properties 'quantity symbol (string)' (P416), 'quantity symbol (LaTeX)' (P7973), and 'defining formula' (P2534) for the subexpression strings were discussed.

- One user argued that using the latter, only two properties (P2234 and P527) would be needed to develop applications, such as the special page, which is planed to be displayed as popup in the future: https://phabricator.wikimedia.org/T208758.

- It was argued that the property P2234 would be general enough to be suitable for longer expressions, such as f(x) or \exp, which are not just symbols.

- Another user replied that one should distinguish between a definition (typically using an '=' sign) and citation (possibly using different symbols, such as m or \mu for 'mass') of a quantity.