Using `\pdfmarkupcomment` in math mode

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1 Simple formulas

PDF annotations work in inline formula ($\sum_{i=1}^{n} i = \frac{1}{2}n \cdot (n+1)$), as well as in display mode:

$$f(x) = \prod_{i=1}^{n}\left(i - \frac{1}{2i}\right)$$

Of course, you can only comment parts of a formula:

$(a+b=c)^{d+e}$

```
\[(a+b=c)^{\pdfmarkupcomment[style=mathpopup]
{d+e}{comment}}\]
```

As you can see the size of the PDF annotation is too big! The math content is set into a box to measure the size. Unfortunately, the math context gets lost, which results in a wrong size, as the math snippets are set as inline formula into the box by default. You can correct this with the option `mathstyle` (`\textstyle, \displaystyle, \scriptstyle, \scriptscriptstyle`)

$(a+b=c)^{d+e}$

```
\[(a+b=c)^{\pdfmarkupcomment[style=mathpopup,
mathstyle=\scriptstyle]{d+e}{comment}}\]
```

Of course, it also works with equations:

$$\sum_{i=1}^{n} i = \frac{1}{2} n \cdot (n+1) \quad (1)$$

```
\begin{equation}
\pdfmarkupcomment[style=mathpopup,
mathstyle=\displaystyle]
{\sum_{i=1}^{n}i=\frac{1}{2}n
\cdot(n+1)}{comment}
\end{equation}\label{eq:display}
```

In formula 1 `mathsytle=\displaystyle` was used.

2 Complex formulas

If you use more complex environments like `eqnarry*`, you can no longer comment the complete formula, as this would break the internals of the environment. Remember that you can only comment, what you can put into a math box ($math stuff$). Therefore, you can only comment parts of the complex formula:

$$\begin{array}{ccc} \text{left} & \text{middle} & \text{right} \\ \frac{1}{\sqrt{n}} = & \frac{\sqrt{n}}{n} = & \frac{n}{n\sqrt{n}} \end{array}$$

```
\begin{eqnarray*}
\pdfmarkupcomment[style=mathpopup]
{\mathrm{left}}{comment} &
\pdfmarkupcomment[style=mathpopup]
{\mathrm{middle}}{comment} &
\pdfmarkupcomment[style=mathpopup]
{\mathrm{right}}{comment}\\
\pdfmarkupcomment[style=mathpopup,
mathstyle=\displaystyle]
{\frac{1}{\sqrt{n}}}{comment} = &
\pdfmarkupcomment[style=mathpopup,
mathstyle=\displaystyle]
{\frac{\sqrt{n}}{n}}{comment} = &
\pdfmarkupcomment[style=mathpopup,
mathstyle=\displaystyle]
{\frac{n}{n\sqrt{n}}}{comment}
\end{eqnarray*}
```