

The fixmath package for LaTeX 2_ε

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LaTeX's default style of typesetting mathematics does unfortunately not comply with the International Standards ISO31-0:1992 to ISO31-13:1992, as summarized, e. g., in <http://physics.nist.gov/Document/typefaces.pdf>:

- Uppercase Greek letters are always typeset upright, as opposed to italic, even though they are usually to represent variables.
- There is no obvious way to typeset variables in a bold italic style, even though the required fonts are available. (The `bm` package is overly complex and not always reliable.)

If you are using the default Computer Modern math fonts, this can be fixed by loading the package `fixmath`:

- Uppercase Greek will be typeset in italic style then.
- Upright Δ and Ω symbols are still available through the commands `\upDelta` and `\upOmega`.
- A new math alphabet `\mathbold` will provide bold italic letters.

The `fixmath` package should be used *only* in conjunction with the CM math fonts; most likely, it will not work with others. Many packages for using alternative math fonts, such as `mathpazo` (for Palatino), provide the `\mathbold` alphabet already and can be loaded with an option `slantedGreek` to make the uppercase Greek letters cursive.

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