```
See @eq:max.

``
˂∇ × [⃗B] - 1/c ∂[⃗E]/∂t ˳= 4π/c [⃗j] ¦#
               ∇ · [⃗E]\ ˳= 4πρ       ¦
 ∇ × [⃗E] + 1/c ∂[⃗B]/∂t ˳= [⃗0]       ¦
               ∇ · [⃗B]\ ˳= 0         ˃
,``{#eq:max}

where ˎ[⃗B], [⃗E], [⃗j]: ℝ⁴ → ℝ³ˎ − vector functions of the form
ˎ(t,x,y,z) ↦ [⃗f](t,x,y,z), [⃗f] = (f_⌜x⌝, f_⌜y⌝, f_⌜z⌝)ˎ.
```

See eq. 1.

$$\begin{aligned}\nabla \times \mathbf{B} - \frac{1}{c}\frac{\partial \mathbf{E}}{\partial t} &= \frac{4\pi}{c}\mathbf{j} \\ \nabla \cdot \mathbf{E} &= 4\pi\rho \\ \nabla \times \mathbf{E} + \frac{1}{c}\frac{\partial \mathbf{B}}{\partial t} &= 0 \\ \nabla \cdot \mathbf{B} &= 0\end{aligned}, \tag{1}$$

where $\mathbf{B}, \mathbf{E}, \mathbf{j} : \mathbb{R}^4 \to \mathbb{R}^3$ – vector functions of the form $(t, x, y, z) \mapsto \mathbf{f}(t, x, y, z)$, $\mathbf{f} = (f_{\mathrm{x}}, f_{\mathrm{y}}, f_{\mathrm{z}})$

```
`` [∵A] = [∵B]⌜T⌝ [∵C] [∵B] ``

``
˂[ x₁₁ ˳x₁₂ ˳x₁₃ ˳… ˳x₁ₙ ¦∵
   x₂₁ ˳x₂₂ ˳x₂₃ ˳… ˳x₂ₙ ¦
    ⋮  ˳ ⋮  ˳ ⋮  ˳⋱ ˳ ⋮  ¦
   xₚ₁ ˳xₚ₂ ˳xₚ₃ ˳… ˳xₚₙ ]˃ ``
```

$$\mathbf{A} = \mathbf{B}^{\mathrm{T}}\mathbf{C}\,\mathbf{B}$$

$$
\begin{bmatrix}
x_{11} & x_{12} & x_{13} & \dots & x_{1n} \\
x_{21} & x_{22} & x_{23} & \dots & x_{2n} \\
\vdots & \vdots & \vdots & \ddots & \vdots \\
x_{p1} & x_{p2} & x_{p3} & \dots & x_{pn}
\end{bmatrix}
$$

```
ˎˎ \def\B{
˂[ ax₀ + by₁ ¦∵
   ax₁ + by₂ ¦
       ⋮     ¦
   ax_{N-1} + by_{N-1} ]˃
}¦
\B = a[⃗x] + b[⃗y] ˎˎ
```

$$
\begin{bmatrix}
ax_0 + by_1 \\
ax_1 + by_2 \\
\vdots \\
ax_{N-1} + by_{N-1}
\end{bmatrix} = a\mathbf{x} + b\mathbf{y}
$$

```
ˎˎ ˳|x|˳ = {∈  x˳ ‹if› x≥0 ¦
                -x˳ ‹if› x<0 } ˎˎ

ˎˎ ⸢boole⸣(x) = {∈ 1˳ ‹if ˏxˎ is › [ᵐTrue]  ¦
                     0˳ ‹if ˏxˎ is › [ᵐFalse] } ˎˎ
```

$$
|x| = \begin{cases} x & \text{if } x \geq 0 \\ -x & \text{if } x < 0 \end{cases}
$$

$$
\operatorname{boole}(x) = \begin{cases} 1 & \text{if } x \text{ is } \texttt{True} \\ 0 & \text{if } x \text{ is } \texttt{False} \end{cases}
$$

```
ˎˎ ⌜lim⌝␣x→0 ˱⌜sin⌝ x˲/x = 1ˎˎ
ˎˎ U_{δ₁ρ₂}^{β₁α₂} ˎˎ
ˎˎ √x = 1 + ˱x-1˲/ᶜ{2 + ˱x-1˲/ᶜ{2 + ˱x-1˲/ᶜ{2 + ⋱}}} ˎˎ
ˎˎ ⌜sin⌝² x¨ + ⌜cos⌝² x¨ = 1 ˎˎ
```

$$\lim_{x\to 0}\frac{\sin x}{x} = 1$$

$$U_{\delta_1\rho_2}^{\beta_1\alpha_2}$$

$$\sqrt{x} = 1 + \cfrac{x-1}{2 + \cfrac{x-1}{2 + \cfrac{x-1}{2 + \ddots}}}$$

$$\sin^2\ddot{x} + \cos^2\ddot{x} = 1$$

```
ˎˎ α₂³/³√{β₂² + γ₂²} ˎˎ
ˎˎ (x + y)² = ∑ₖ₌₀^∞ (n¦ᶜk)xⁿ⁻ᵏyᵏ ˎˎ
ˎˎ (n¦ᶜk) = ˱(n¦˸k)˲, ˱[n¦˸k]˲ ˎˎ
```

$$\frac{\alpha_2^3}{\sqrt[3]{\beta_2^2 + \gamma_2^2}}$$

$$(x+y)^2 = \sum_{k=0}^{\infty}\binom{n}{k}x^{n-k}y^k$$

$$\binom{n}{k} = \begin{pmatrix} n \\ k \end{pmatrix}, \quad \begin{bmatrix} n \\ k \end{bmatrix}$$

```
ˎˎ {x + … + x}⏞{k ‹times›} ˎˎ
ˎˎ πd²/4 1/˳(A+B)˳² =
   πd²/4👻{˳(A)˳²} 1/˳(A+B)˳² ˎˎ
ˎˎ ∑ⁿ_{0≤i≤N ¦␣ 0≤j≤M} (ij)² +
   ∑ⁿ_{i∈A ¦␣¹ 0≤j≤M} (ij)²  ˎˎ
```

$$\overbrace{x+\ldots+x}^{k\text{ times}}$$

$$\frac{\pi d^2}{4}\frac{1}{(A+B)^2}=\frac{\pi d^2}{4}\frac{1}{(A+B)^2}$$

$$\sum_{\substack{0\le i\le N\\0\le j\le M}}^{n}(ij)^2+\sum_{\substack{i\in A\\0\le j\le M}}^{n}(ij)^2$$

```
ˎˎ ⌜erf⌝(x) = 1/√π ∫₋ₓˣ e^{-t²} dt ˎˎ
ˎˎ f⁽²⁾(0) = f''(0) = ˳˂d²f/dx²|˳ₓ₌₀ ˎˎ
Text ˎ˳˳(˂a ˳b ¦∷ᵗ c ˳d˃)˳˳ˎ and some more text.
```

$$\operatorname{erf}(x)=\frac{1}{\sqrt{\pi}}\int_{-x}^{x}e^{-t^2}dt$$

$$f^{(2)}(0)=f''(0)=\left.\frac{d^2f}{dx^2}\right|_{x=0}$$

Text $\binom{a\ b}{c\ d}$ and some more text.

---

prefix unary operator `→¯`:

```
ˎˎ f: x →¯{‹arrow map›} ␣i x² ˎˎ
```

$$f : x \xrightarrow[i]{\text{arrow map}} x^2$$

postfix unary operator `¬`:

```
،، f: x → ¬‹arrow map› ␣i x² ،،
```

$$f : x \underset{i}{\overset{\text{arrow map}}{\rightarrow}} x^2$$

bug because styles also implemented as prefix unary operators (but by design styles should have priority!):

```
،، f: x →¬‹arrow map› ␣i x² ،،
```

$$f : x \xrightarrow{‹arrow} \underset{i}{map›}\, x^2$$