```
See @eq:max.

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

where ˛[⃗B], [⃗E], [⃗j]: ℝ⁴ → ℝ³˛ – vector functions of
the form
˛(t,x,y,z) ↦ [⃗f](t,x,y,z), [⃗f] = (f_⌜x⌝, f_⌜y⌝, f_⌜z⌝)˛.
```

See eq. 1.

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

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

---

```
See @eq:max2.

``
˰∇ × B - 1/c ∂E/∂t ˳= 4π/c j ¦#
            ∇ · E\ ˳= 4πρ    ¦
 ∇ × E + 1/c ∂B/∂t ˳= 0      ¦
            ∇ · B\ ˳= 0      ˲
```

```
,``{#eq:max2}

where `B, E, j: ℝ⁴ → ℝ³` – vector functions of the form
`(t,x,y,z) ↦ f(t,x,y,z), f = (f_ˈxˈ, f_ˈyˈ, f_ˈzˈ)`.
```

See eq. 2.

$$\begin{aligned}\nabla\times\mathbf{B}-\frac{1}{c}\frac{\partial\mathbf{E}}{\partial t} &= \frac{4\pi}{c}\mathbf{j} \\ \nabla\cdot\mathbf{E} &= 4\pi\rho \\ \nabla\times\mathbf{E}+\frac{1}{c}\frac{\partial\mathbf{B}}{\partial t} &= \mathbf{0} \\ \nabla\cdot\mathbf{B} &= 0\end{aligned}, \qquad (2)$$

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]ˈTˈ [∵C] [∵B] ``

`` A = BˈTˈC B ``
```

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

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

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

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

---

```
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 ˎxˎ is › [ᵐTrue]  ¦
                  0˳ ‹if ˎxˎ 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
```

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

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

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

---

```
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 ¦␣ˡ 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.
```

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

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

Text $\left(\begin{smallmatrix} a & b \\ c & d \end{smallmatrix}\right)$ and some more text.

---

prefix unary operator `→¯`:

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

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

center binary operator `¯`:

```
`` f: x → ¯‹arrow map› ⎵i x² ``
```

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

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

```
`` f: x →¯‹arrow map› ⎵i x² ``
```

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