```
See @eq:max.

``
˛∇ × [ B⃗] − 1⁄c ∂[ E⃗]⁄∂t ˳= 4π⁄c [ j⃗] ¦#
                  ∇ · [ E⃗]\ ˳= 4πρ        ¦
 ∇ × [ E⃗] + 1⁄c ∂[ B⃗]⁄∂t ˳= [ 0⃗]        ¦
                  ∇ · [ B⃗]\ ˳= 0          ˒
,``{#eq:max}

where `[ B⃗], [ E⃗], [ j⃗]: ℝ⁴ → ℝ³` – vector functions of the
form
`(t,x,y,z) ↦ [ f⃗](t,x,y,z), [ f⃗] = (f_ˊxˋ, f_ˊyˋ, f_ˊzˋ)`.
```

See eq. 1. \[\begin{aligned}∇ × {\mathbf{B}} - \frac{1}{c} \frac{∂{\mathbf{E}}}{∂t} &= \frac{4π}{c} {\mathbf{j}}\\ ∇ · {\mathbf{E}}\ &= 4πρ \\ ∇ × {\mathbf{E}} + \frac{1}{c} \frac{∂{\mathbf{B}}}{∂t} &= {\mathbf{0}} \\ ∇ · {\mathbf{B}}\ &= 0 \end{aligned} ,\qquad(1)\]

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

```
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_'x', f_'y', f_'z')`.
```

See eq. 2. \[\begin{aligned}∇ × **B** - \frac{1}{c} \frac{∂**E**}{∂t} &= \frac{4π}{c} **j**\\ ∇ · **E**\ &= 4πρ \\ ∇ × **E** + \frac{1}{c} \frac{∂**B**}{∂t} &= **0** \\ ∇ · **B**\ &= 0 \end{aligned} ,\qquad(2)\]

where \(**B**,\,**E**,\,**j**:\,ℝ^{4} → ℝ^{3}\) – vector functions of the form \((t,x,y,z) ↦ **f**(t,x,y,z),\,**f** = (f_{\mathrm{x}}, f_{\mathrm{y}}, f_{\mathrm{z}})\).

```
`` [⁘A] = [⁘B]'T' [⁘C] [⁘B] ``

`` A = B'T'C B ``
```

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

\[**A** = **B**^{{\mathrm{T}}}**C**\,**B** \]

```
``
[ x11  x12  x13  …  x1n ¦⁘
  x21  x22  x23  …  x2n ¦
  ⋮    ⋮    ⋮    ⋱   ⋮   ¦
  xp1  xp2  xp3  …  xpn ],  ``
```

\[\begin{bmatrix} x_{11} &x_{12} &x_{13} &… &x_{1n}\\ x_{21} &x_{22} &x_{23} &… &x_{2n} \\ ⋮ & ⋮ & ⋮ &⋱ & ⋮ \\ x_{p1} &x_{p2} &x_{p3} &… &x_{pn} \end{bmatrix} \]

```
、、 `def`B{
‹[ ax₀ + by₁ ¦⁖
   ax₁ + by₂ ¦
       ⋮     ¦
   ax_{N-1} + by_{N-1} ]›
}¦
`B = a[ ⃗x] + b[ ⃗y] 、、
```

\[\def\B{ \begin{bmatrix} ax_{0} + by_{1}\\ ax_{1} + by_{2} \\ ⋮ \\ ax_{N-1} + by_{N-1} \end{bmatrix} }\\ \B = a{\mathbf{x}} + b{\mathbf{y}} \]

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

、、 ˹boole˺(x) = {∈ 1˳ ‹if ˎxˎ is › [ᵐTrue]  ¦
                   0˳ ‹if ˎxˎ is › [ᵐFalse] } 、、
```

\[\left\vert{x}\right\vert = \begin{cases} x& {\text{if}} x≥0 \\ -x& {\text{if}} x<0 \end{cases} \]

\[{\mathrm{boole}}(x) = \begin{cases} 1& {\text{if x is }} {\class{MJX-Monospace}{\mathtt{True}}} \\ 0& {\text{if x is }} {\class{MJX-Monospace}{\mathtt{False}}} \end{cases} \]

```
、、 ˹lim˺␣x→0 ‹˹sin˺x›⁄x = 1、、
、、 U_{δ₁ρ₂}^{β₁α₂} 、、
```

```
ˎˎ √x = 1 + ˓x-1˒⁄ᶜ{2 + ˓x-1˒⁄ᶜ{2 + ˓x-1˒⁄ᶜ{2 + ⋱}}} ˎˎ
ˎˎ ˹sin˺² ẍ + ˹cos˺² ẍ = 1 ˎˎ
```

\[\underset{x→0}{{\mathrm{lim}}} \frac{{{\mathrm{sin}}\,x}}{x} = 1\] \[U_{δ_{1}ρ_{2}}^{β_{1}α_{2}} \] \[\sqrt[]{x} = 1 + \cfrac{{x-1}}{{2 + \cfrac{{x-1}}{{2 + \cfrac{{x-1}}{{2 + ⋱}}}}}} \] \[{\mathrm{sin}}^{2} \ddot{x} + {\mathrm{cos}}^{2} \ddot{x} = 1 \]

```
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
```

\[\frac{α_{2}^{3}}{\sqrt[3]{{β_{2}^{2} + γ_{2}^{2}}}} \] \[(x + y)^{2} = \sum_{k=0}^∞ \binom{n}{k}x^{n-k}y^{k} \] \[\binom{n}{k} = \genfrac{(}{)}{0pt}{}{n}{k}, \genfrac{[}{]}{0pt}{}{n}{k}\]

```
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
```

\[\overset{{k {\text{times}}}}{\overbrace{{x + … + x}}}\] \[\frac{πd^{2}}{4} \frac{1}{\left({A+B}\right)^{2}} = \frac{πd^{2}}{4\vphantom{{\left({A}\right)^{2}}}} \frac{1}{\left({A+B}\right)^{2}} \] \[\sum^{n}_{\substack{0≤i≤N\\0≤j≤M}} (ij)^{2} + \sum^{n}_{\begin{subarray}{l}i∈A\\0≤j≤M\end{subarray}} (ij)^{2} \]

```
ˎˎ ˹erf˺(x) = 1∕√π ∫₋ₓˣ e^{-t²} dt ˎˎ
ˎˎ f⁽²⁾(0) = f''(0) = ₒ˓d²f∕dx²|ₒₓ₌₀ ˎˎ
Text ˎₒₒ(˓a ₒb ¦∷ᵗ c ₒd˒)ₒₒˎ and some more text.
```

\[{\mathrm{erf}}(x) = \frac{1}{\sqrt[]{π}} \int_{-x}^{x} e^{-t^{2}} dt \] \[f^{(2)}(0) = f''(0) = \left.{\frac{d^{2}f}{dx^{2}}}\right\vert_{x=0} \] Text \(\bigl(\begin{smallmatrix}a &b\\c &d\end{smallmatrix}\bigr)\) and some more text.

---

prefix unary operator `→⎴`:

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

\[f: x \underset{i}{\xrightarrow{{{\text{arrow map}}}}} x^{2} \] center binary operator `⎴`:

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

\[f: x \underset{i}{\overset{{\text{arrow map}}}{→}} x^{2} \] bug because styles also implemented as prefix unary operators (but by design styles should have priority!):

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

\[f: x \xrightarrow{‹arrow} \underset{i}{map›} x^{2} \]