Info

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# $PSL(n, \mathbb{C})$

> **Proposition:**
>
> $$\underbrace{\frac{GL(n, \mathbb{C})}{\{\lambda I : \lambda \neq 0\}}}_{PGL(n, \mathbb{C})} \cong \underbrace{\frac{SL(n, \mathbb{C})}{\{-I, I\}}}_{PSL(n, \mathbb{C})}$$

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Current note has 0 direct children and 0 total descendants.

- squishy
  - $SL$
    - $PSL(n, \mathbb{C})$

And it has 15 siblings.

- squishy
  - $SL$
    - SL(2)
    - $SL(2)(\mathbb{C})$
    - $PSL(n, \mathbb{C})$
    - $SL(2)(\mathbb{R})$
    - $SL(2)(\mathbb{R}) / SL(2)(\mathbb{Z})$
    - $H_q$
    - $PSL(2)(\mathbb{Z})[2]$
    - $[PSL(2)(\mathbb{Z})[2], PSL(2)(\mathbb{Z})[2$$]]
    - $PSL(2)(\mathbb{Z})[N]$
    - $SL(3, \mathbb{R})$
    - $SL(2)(\mathbb{Z})$
    - $PSL(2)(\mathbb{Z})$
    - Congruent subgroups of $PSL(2)(\mathbb{Z})$
    - $SL(n, \mathbb{Z})$
    - $SL(2)(\mathbb{Z}_2)$