

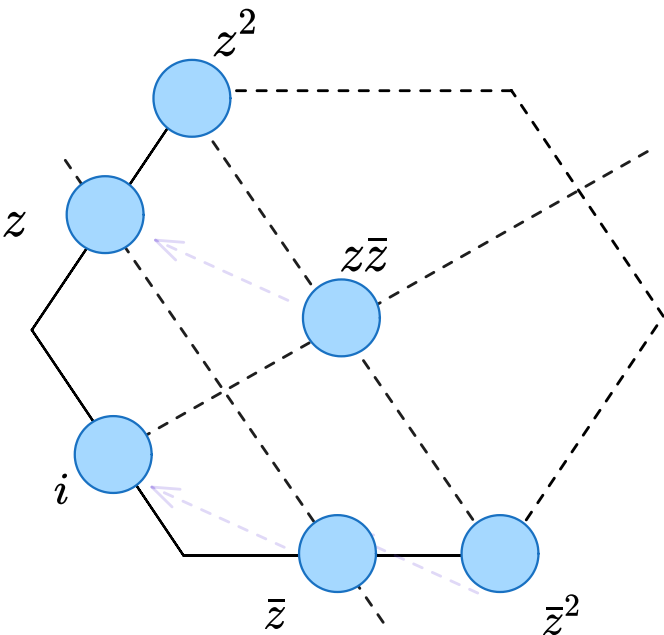
Info

This note, that [was found here](#), as a part of [a collection](#) is written (completely with human hands) by [Rupadarshi Ray](#), was created on July 2, 2024 7:55:40 PM, was last modified on May 17, 2026 7:36:36 PM, and was exported on September 7, 2026 2:50:38 PM.

$$\mathfrak{sl}(2, \mathbb{C}) \ltimes \mathfrak{n}(3, \mathbb{C})$$

Definition. $\mathfrak{sl}(2, \mathbb{C}) \ltimes \mathfrak{n}(3, \mathbb{C})$

$$\mathfrak{sl}(2, \mathbb{C}) \curvearrowright \mathfrak{n}(3, \mathbb{C})$$



Perfect, non-solvable.

Bug

Check if the following is actually this direct product group

In Poisson bracket notation

	i	z	$\bar{z}$	z^2	$\bar{z}^2$	$z\bar{z}$	$2i\frac{\partial}{\partial \bar{z}}$
i	-	0	0	0	0	0	0
z	0	-	i				0
$\bar{z}$	0	$-i$	-				$2i$
z^2	0	0	$2iz$	-			0
$\bar{z}^2$	0	$-2i\bar{z}$	0	$(4i)z\bar{z}$	-		$4i\bar{z}$
$z\bar{z}$	0	$-iz$	$i\bar{z}$	$(-2i)z^2$	$(2i)\bar{z}^2$	-	$2iz$

Current note has 0 direct children and 0 total descendants.

- [squishy](#)
 - [SL2 semi N3 C](#)
 - $\mathfrak{sl}(2, \mathbb{C}) \ltimes \mathfrak{n}(3, \mathbb{C})$

And it has 1 siblings.

- [squishy](#)
 - [SL2 semi N3 C](#)
 - $\mathfrak{sl}(2, \mathbb{C}) \ltimes \mathfrak{n}(3, \mathbb{C})$