

This note, that [was found here](#), as a part of [a collection](#) is written (completely with human hands) by [Rupadarshi Ray](#), was created on April 29, 2024 7:54:28 PM, was last modified on August 28, 2026 11:30:39 PM, and was exported on September 7, 2026 3:04:01 PM.

S5

parti tion of 5	conj ugac y class	size	parit y of elem ents	order of elem ents	Youn g diagr am	trivia l	alter natin g	stan dard	stan dard ⊗ alter natin g			
1+1 +1+ 1	<i>i</i>	1	even	1		1	1	4				
2+1 +1+ 1	(1 2)		odd	2		1	-1					
3+1 +1	(1 2 3)		even	3		1	1					
4+1	(1 2 3		odd	4		1	-1					
5	(1 2 3		even	5		1	1					
2+2 +1	(1 2)(3		even			1	1					
2+3	(1 2)(3		odd			1	-1					
	7	120				kerne l is full	kerne l = <i>A</i> ₅					

standard representation

conjugacy class	standard representation on $\left\{\sum_i z_i = 1\right\} \leq \mathbb{C}^5$ with basis $\{e_1, e_2, e_3, e_4\}$	character of standard representation
<i>i</i>		
(1 2)		
(1 2 3)		
(1 2 3 4)		
(1 2 3 4 5)		
(1 2)(3 4)		
(1 2)(3 4 5)		

Current note has 0 direct children and 0 total descendants.

- stretchy
 - [Symmetric group](#)
 - S*₅

And it has 5 siblings.

- stretchy
 - [Symmetric group](#)
 - S*₃
 - S*₄
 - S*₅
 - S*_{*n*}
 - lim *S*_{*n*}