

Tigers OX Server

Edition : auto generated by oxgentexi on 27 March 2025

1 TIGERS

, tigers ox server ox_sm1_tigers .

1.0.1 tigers.tigers

tigers.tigers(a|proc=a)
 :: p tigers a .

p

a

- p tigers a .
- Tigers reduced . , state polytope . ,
 B.Sturmfels, Grobner bases and Convex Polytopes
 . Tigers Birk Hubert .
 B.Huber and R.Thomas, Computing Grobner Fans of Toric Ideals

```
[395] A=[[1,1,1,1],[0,1,2,3]]$
[306] S=tigers.tigers(A)$
[307] length(S);
8
[308] S[0];
[[[1,0,1,0],[0,2,0,0]],[[1,0,0,1],[0,1,1,0]],[[0,1,0,1],[0,0,2,0]]]
[309] S[1];
[[[1,0,0,1],[0,1,1,0]],[[0,2,0,0],[1,0,1,0]],[[0,1,0,1],[0,0,2,0]]]
```

, $A = S$. , 8 . $[[i-1, i-2, \dots], [j-1, j-2, \dots]]$ exponent , 2 . , $S[0]$
 $x_1 x_3 - x_2^2$, $x_1 x_4 - x_2 x_3$, $x_2 x_4 - x_3^2$
 , $\langle x_1 x_3, x_1 x_4, x_2 x_4 \rangle$ initial ideal .

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