





Q

September 24, 2021

Dataset Open Access

Set of N integers between -30 and 30 with sum and cubic sum up to zero for 4<N<13

Diego Restrepo

Anomalies

Solutions obtained with the python package: anomalies based on the method to find anomaly free solutions of the standard model extended with an Abelian Dark Symmetry with N right-handed singlet chiral fields described in arXiv:1905.13729 [PRL]:

Data scheme

- 'I': integer lists → input to obtain the 'solution' by using the anomalies package
- 'k': integer lists → input to obtain the 'solution' by using hte anomalies package
- 'solution': list ightarrow of integers, z_i which satisfy $\sum_i z_i = 0$ and $\sum_i z_i^3 = 0$
- 'n': integer → number of integers in 'solution', N.

USAGE

#Example of JSON file usage in Python with pandas (see also json module) >>> import pandas as pd >>> df=pd.read_json('solutions.json') >>> df[:2] k solution gcd n [1, 2] [0, -3] [1, 5, -7, -8, 9] 1 5 1 [-2, -1] [0, -1] [2, 4, -7, -9, 10] 1 5

390074 solutions with $5 \le N \le 12$ integers until '[32]' [JSON]

17 ★ downloads See more details





