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## Sp(2N) gauge theories on the lattice.

*Tuesday, 15 December 2020 12:25 (5 minutes)*

Yang-Mills theories based on the Symplectic groups (denoted by  $Sp(2N)$ ) have the potential to describe a composite Higgs particle. To gain a better understanding of such theories, it is important to understand the dynamics of the pure Yang-Mills sector as well as in the presence of fermions. A detailed study of the glueball spectrum has been carried out for  $N = 1, 2, 3$  and 4 along with an extrapolation to the large- $N$  limit. We begin a study of the meson spectrum as a logical continuation to these studies with a view to applying the results to composite Higgs models.

### Would you be interested in receiving feedback on your talk?

Yes

### Will you be pre-recording your talk?

No

### Length of talk

3-5 minutes

### Are you happy for your talk to be recorded?

Yes

**Primary author:** HOLLIGAN, Jack (Swansea University)**Presenter:** HOLLIGAN, Jack (Swansea University)**Session Classification:** 5 Minute Talks