

*Center for Mathematical Physics at Boston University*

## **Fermionization of Quantum Gauge theories**

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We show that quantum gauge theories in three and four dimensions can be Fermionized; that is, that the partition function of the cut off gauge theory is equal, order by order in resummed perturbation theory, to the partition function of a cut off fermionic quantum field theory. This result produces natural conjectures about the behavior of the partition function, in both the ultraviolet and infrared limits.

**Wednesday, Dec 02, 12-1pm**

Rm 180, Math. Dept. Boston U., 111 Cmmington St.

<http://math.bu.edu/research/mathphys/seminar.html>