

PROCEEDINGS OF SCIENCE

publicado nos Anais do Congresso disponível na página http://pos.sissa.it/cgi-bin/reader/conf.cgi?confid=175 o artigo encontra-se disponível na página http://pos.sissa.it/archive/conferences/175/014/ICMP%202012_014.pdf

Measuring the Instability of a Reducible Critical point of the Seiberg-Witten Functional

Celso Melchiades Doria*†

Universidade Federal de Santa Catarina (UFSC)

E-mail: c.m.doria@ufsc.br

The instability of the reducible critical points (A,0) of the Seiberg-Witten functional is studied by analysing the lowest eigenvalue of the elliptic operator $L_A = \triangle_A + \frac{k_g}{4}$. A short resume about the existence and relevance of *SW*-monopoles is given and also how geometrical structures on a 4-manifold X plays an important role to the theory.

7th Conference Mathematical Methods in Physics, 16 to 20 April 2012 Rio de Janeiro. Brazil

^{*}Speaker

[†]This work was supportted by FAPESC 2568/2010-2