1052-53-119   **Mehdi Lejmi*** (`lejmi.mehdi@courrier.uqam.ca`), Département de Mathématiques, UQÀM, C.P. 8888 Succ. Centre-ville, Montréal, Québec H3C 3P8, Canada. *Extremal almost-Kähler metrics.*

We generalize the notions of the Futaki invariant and extremal vector field of a compact Kähler manifold to the general almost-Kähler case and show the periodicity of the extremal vector field when the symplectic form represents an integral cohomology class modulo torsion. (Received August 24, 2009)