

# Consistency for the surface diffusion flow in three dimensions

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We will discuss the flat flow solution for the surface diffusion equation via a discrete minimizing movements scheme proposed in 1994 in a celebrated paper by J.W. Cahn and J.E. Taylor. We will show that in dimension three the scheme converges to the unique smooth solution of the equation, provided the initial set is sufficiently regular. Joint paper with Marco Cicalese, Vesa Julin and Andrea Kubin.