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The Contribution of Kawada to the Analytical Solution for the Velocity Induced by a Helical Vortex Filament - DTU Orbit (08/11/2017)

The Contribution of Kawada to the Analytical Solution for the Velocity Induced by a Helical Vortex Filament

The basic solution for the velocity induced by helical vortex filament is well known as Hardin's solution, published in 1982. A study of early publications on helical vortices now shows that the Japanese scientist Kawada from Tokyo Imperial University also produced many of these results in 1936, which predates Hardin by 46 years. Consequently, in order to honor both, we have studied their derivations to establish the originality of both solutions.

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