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Subject: arXiv submission submit/0800121 to math.GT math-ph math.DS math.MP by Rafal Komendarczyk
Date: Fri, 13 Sep 2013 00:44:01 -0400
From: e-prints@arxiv.org
Reply-To: mod-admin@arxiv.org
To: bxn@math.ucdavis.edu, fendleyp@yahoo.com, greg@math.ucdavis.edu,
     kuperkm@auburn.edu, mark@csc.albany.edu, tao@math.ucla.edu
View the submission at http://arxiv.org/mod/800121
11
arXiv:submit/0800121
From: Rafal Komendarczyk <rafkom@gmail.com>
Date: Fri, 13 Sep 2013 00:44:01 EST (236kb,D)
Title: On volume-preserving vector fields and finite type invariants of knots
Authors: R. Komendarczyk, I. Volic
Categories: math.GT math-ph math.DS math.MP
Comments: 28 pages, 6 figures
License: http://arxiv.org/licenses/nonexclusive-distrib/1.0/
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   We consider the general nonvanishing, divergence-free vector fields defined on a domain in three
   space and tangent to its boundary. Based on the theory of finite type invariants, we define a
   family of invariants for such fields, in the style of Arnold's asymptotic linking number. Our
   approach is based on the configuration space integrals due to Bott and Taubes.
//
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