

THE INVARIANTS OF PLANAR 3-WEBS WITH RESPECT TO GROUP OF SYMPLECTIC  
DIFFEOMORPHISMS, FOR THE CASE OF THE CONFORMAL GROUP

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The classical web geometry ([1],[2],[4]) studies invariants of foliation families with respect to pseudogroup of diffeomorphisms. Thus for the case of planar 3-webs the basic semi invariant is the Blaschke curvature ([3]). It is also curvature of the Chern connection ([4]) that are naturally associated with a planar 3-web. Remark that we have in addition to the diffeomorphism group two infinite dimensional groups: symplectic and conformal groups.

We investigate invariants of planar 3-webs with respect to group of symplectic diffeomorphisms, for the case of the conformal group see ([5]). We found the basic symplectic invariants of planar 3-webs that allow us to solve the symplectic equivalence problem for planar 3-webs in general position. The Lie-Tresse theorem ([6]) gives the complete description of the field of rational symplectic differential invariants of planar 3-webs. We also give normal forms for homogeneous 3-webs, i.e. 3-webs having constant basic invariants.

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