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研究方向1: 多复变函数论及其应用

研究方向2: 算子理论及其应用

研究方向3: 线性动力系统



#### 学习与工作经历:

1987年9月至1990年7月, 厦门大学数学系攻读硕士学位, 理学硕士.

1990年7月至1996年9月, 武汉工程大学数学教研室工作, 讲师.

1996年9月至1999年6月, 武汉大学攻读博士学位, 理学博士, 1998年12月晋升为副教授.

1999年6月至2001年3月, 中国科学技术大学数学系从事博士后研究工作.

2001年3月至今, 天津大学数学系工作, 2002年6月破格晋升为教授, 2004年被聘为天津大学博士生导师.

#### 参加学术团体及职务:

教育部数学基础课程教学指导分委会委员, 天津市数学会常务理事, 天津市工业与应用数学会理事。《Journal of Complex Analysis》编委, 《Scientific Journal of Mathematics Research》编委。美国《Mathematical Reviews》评论员, 德国《Zentralblatt Math》评论员。

#### 主要研究成果:

早期从事多复变双全纯映照的边界开拓问题、多复变函数值分布及dbar方程的研究, 给出了多元K拟共形映照族的正规定则。近年来, 主要从事多复变函数空间与算子理论及Berezine量子化问题等方面的研究。系统地讨论了多圆柱、超球、有界对称域上各种函数空间上的复合算子、Toeplitz算子、Cesaro算子的有界性与紧性问题, 给出了一些算子的本性模估计, 并研究了复合算子的拓扑结构、谱特征、算子空间的等距问题及Toeplitz算子的代数性质等。现已发表论文(第一作者或通讯作者)七十多篇, 其中被SCI收录五十二篇, 被SCI期刊源引用近两百次。主要结果发表在《Mathematicheskii Sbornik》(Russian), 《Michigan Math. J.》, 《J. Operator Theory》, 《Archiv der Mathematik》, 《Internat. J. Math.》, 《Illinois J. Math.》, 《Integral Equations Operator Theory》, 《Proc. Amer. Math. Soc.》等国际著名数学期刊。

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[4] [Ze-Hua Zhou](#), Yu-Xia Liang and Xing-Tang Dong, Weighted composition operator between weighted-type space and Hardy space on the unit ball, Ann. Polon. Math.

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- [19] Yu-Xia Liang, Ze-Hua Zhou and Ren-Yu Chen, Product of extended Cesaro operator and composition operator from the logarithmic Bloch-type space to  $F(p,q,s)$  space on the unit ball, *J. Comput. Anal. Appl.* 2012, preprint. (SCI:)
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2000年至2007年

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3. 国家教育部高校特设专业<数学与应用数学>建设, 负责人, 2007—2012.

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2. 主持国家自然科学基金协作项目:多复变值分布, 刚性理论和函数空间, 资助号: 10371091, 004.01-2006.12,
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