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1995.9--1997.7

1991.7--2000.1

2000.2--2003.5

2003.6--2005.5

(GSI Virtual Institute),

2005.6--

2012.1--2015.12

2014.7--2014.12

(1)

Chiral Kinetic Equation)

(DWF theorem)

(2)

Berry

$\hbar$

Berry

(3)

(4)

(5)

(Covariant

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