Research Report (April, 2019 - March, 2020)

Eni Api	ollment from ril 2017	Department of Pure and Applied Mathematics	Ryosuke ODOI
I.	List of Papers		
	None		
II.	List of Talks		
	None		
III. Research Results in AY2019			
	I calculated the asymptotic expansion of the tau-function of the auxiliary linear ordinary		
	differential equation of the tt*-Toda equations. And I obtained the expression of the constant of		
	the asymptotic expansion in terms of asymptotic data and monodromy data, whose relation is		
	explicitly shown in Guest-Its-Lin (arXiv:1707.00259). From these calculations, I obtained an		
	explicit relation between the constant of the tau-function and the generating function which i obtained last year. (The generating function induces a canonical transformation between the		
			ormation between the
	canonical local coord	inate related to asymptotic data and one related to n	nonodromy data.)
IV.	Research Plan for AY2020		
	The above results are	e for global solutions of the tt^* -Toda equations, so I v	vould like to generalize
	them to non-global s	olutions. And I would like to obtain a rigorous geome	etric formulation of the
	symplectic form related to monodromy data.		