My Journey – Development of Advanced Particle Transport formulations and algorithms for achieving accurate solution in real time

Year	Methodology	Computer Code	Wall-clock Time			Former & Current Students
2020	MRT	RAPID benchmarking; improved database management (*CRd, DRF, bRAPID algorithms*)				V. Mascolino, A. Pungercic (JSI)
2019	MRT	RAPID – *CRd* (JSI TRIGA), RAPID - *DRF*	Smart phone, 1 Core	Minutes	Seconds	V. Mascolino, Dr. M. J. Wang, J. Butler
2018	MRT	*t*RAPID				V. Mascolino
2018	MRT	*b*RAPID				Dr. N. Roskoff & J. Bartel
2017	VRS for RAPID	*VRS*-RAPID				V. Mascolino
2016	MRT	RAPID				Drs. Walters & Roskoff, and V. Mascolino & Dr. M.J. Wang
2015	MRT	TITAN-IR				Dr. K. Royston
2013	MRT	AIMS				Drs. Royston & Walters
2009	MRT	INSPCT-S				Dr. W. Walters
2007	Hybrid MC-Dtrm (electon)	ADIES		Months	Days	Dr. B. Dionne
2005	Hybrid Dtrm-Dtrm	TITAN	100's 1000's Cores			Drs. C. Yi & Walters
1997	Hybrid MC-Dtrm	A^{3}MCNP				Drs J. Wagner & Shedlock
1996	3-D Parallel	PENTRAN				Drs. Sjoden & Kucukboyaci
1992	2-D Vector & Parallel Dtrm			Years	Month	Drs. M. Hunter, R. Mattis & B. Petrovic
1989	1-D Parallel Dtrm		A few cores			
1986	1-D vector Dtrm					