

<i>branch</i>	<i>type</i>	<i>Notes</i>
type	unsigned int	reaction type; 0=(d,p), 1=(p,p), 2=(d,d), 3=(12C,12C), 4=(d,t)
det	unsigned int	SHARC detector number [5-16]
front	unsigned int	SHARC DSSD front strip number [BOX: 0-23 QQQ: 0-15]
back	unsigned int	SHARC DSSD back strip number [BOX: 0-47 QQQ: 0-23]
thetalab	double	Laboratory angle of measured particle
phi	double	Phi of measured particle
phicorr	double	Correction factor to account for extra energy loss due to phi (=1 when perpendicular to surface)
delcorr	double	Correction factor to account for extra energy loss due to theta (=1 when perpendicular to surface)
dcharge	double	Charge deposited in front strip of DSSD (integrated)
dchargeb	double	Charge deposited in back strip of DSSD (integrated)
pcharge	double	Charge deposited in pad (integrated)
dengalpha	double	Partially calibrated (gain-matched) energy, using alpha source calibration coefficients. Each section (eg DBOX) is gain-matched
denergy	double	Energy measured in the DSSD (fully calibrated)
penergy	double	Energy measured in the DSSD (fully calibrated)
exc	double	Reconstructed excitation energy of Sr recoil
ekin	double	Reconstructed kinematic energy of measured particle, with energy losses added back
thetacm	double	Center-of-mass angle of measured particle
rekin	double	Reconstructed kinematic energy of heavy recoil, with energy losses added back
rbeta	double	Reconstructed beta value of heavy recoil, with energy losses added back
rthetalab	double	Reconstructed laboratory angle of heavy recoil
phase	double	RF phase (beam pulses)
ekinthy	double	Theoretical kinematic energy, given the specified reaction and position
dengthy	double	Theoretical energy measured in DSSD, given the specified reaction and position
pengthy	double	Theoretical energy measured in pad, given the specified reaction and position
addsize	unsigned int	Number of add-back hits in TIGRESS
tigdet	unsigned int	TIGRESS detector number of add-back hit
tigcry	unsigned int	TIGRESS crystal number of add-back hit
tigseg	unsigned int	TIGRESS segment number of add-back hit
tigeng	double	Energy of add-back hit, fully calibrated and NOT Doppler-corrected
eadd	double	Energy of add-back hit, fully calibrated and Doppler-corrected
tadd	double	Time of add-back hit
thetadd	double	Laboratory angle of add-back hit
tsize	unsigned int	Number of hits in TIGRESS
tdet	unsigned int	TIGRESS detector number of hit
tcry	unsigned int	TIGRESS crystal number of hit
tseg	unsigned int	TIGRESS segment number of hit
teng	double	Energy of hit, fully calibrated and NOT Doppler-corrected
tdop	double	Energy of hit, fully calibrated and Doppler-corrected
ttim	double	Time of hit
theth	double	Laboratory angle of hit
tbeam	int	Charge deposited in TRIFOIL
beam	bool	Binary signal of TRIFOIL