Steps:	PO	P1	P2	Р3	P4	P5	Р6	P7	Р8
D		Start pumping. Wait till		While waiting to reach 1		Gas to IC. Gradually set			
	Initialize. Merge IC, TAMU,			mTorr, turn on GHS mech.		the control valve. Wait till			
Mechanical components: 0	-	pressure.	turn on turbos		turn on ion gauges.	IC 300 Torr.	gauge.	Switch to abs. gauge.	Running experiment.
AT-TPC is vacuum	means closed, I means of	Jen, 0.5 means in betwe	en (usuany neeus manua	ar aujustinentij	1	1		1	1 1
V1	1	1		1		1		<u> </u>	
V2	1		1	1	1	1			1 1
V2	1	1	1	1	1	1			1
V4	1	1	1	1	1	1			1 1
V5	0) 1	0	0			0
V6	0	Č		0	0	0			0
V7	1	1		1	0	0	(0
V8	0.5	0.5	0.5	0.5	0.5	0.5	0.9	5 0.	5 0.5
gas regulator	0	0	(0	0	0.5		1	1 1
V10, IC-TAMU by-pass	1	1	(0	0	0)	0 0
V11, MCP-TAMU by-pass	1	1	(0	0	0	()	o
V12, turbo for TAMU	0	1	. 1	l 1	. 1	1		1	1
V13, turbo for MCP	0	1	. 1	1	. 1	1		1	1
V14, mech to turbos	0	1		1	. 1	1		1	1 1
V15, mech to GHS	0	C	(1	. 1	1		1	1
V16, gas to GHS	0	C	(0	0	1		1	1
V17, Room/N2 to GHS	0	C	(0	0	0	()	0
V18, Room/N2 to TAMU	0	C	(0	0	0	()	0
Components that run on ele	ectricity: 0 means off/clos	ed, 1 means on/open, 0	.5 means auto						
mech. pump for turbo	1	1	. 1	1	. 1	1		l :	1
mech. pump for GHS	1	1		l 1	1	1		l :	1
turbo for MCP	0	C	1	l 1	1	1	:	l :	1
turbo for TAMU	0	C		l 1	. 1	1		1	1
control valve	1	1	() 0	0	0.5	()	0.5
diff. gauge	1	1	. 1	l 1	. 1	1) 0
abs. gauge	0	C	(0	0	0	(1
HV for IC, Si, MCP	0	(() 0	0	0	()	1
HV for HPGe	1	1	. 1	1	. 1	1	-		1
Pre. Amp of IC	0	0	() 0	0	0	()	1
Regular gauge for TAMU	1	1		. 1	. 1	1			1
Ion gauge for TAMU	0	C	(Ĭ	1	1			1
Ion gauge for MCP	0	((0	1	1			1

Steps:	V0	V1	V2	V3	V4	V5	V6	V7	V8		
Remarks:		Prepare for venting. Turn off delicate items.	Prepare for venting. Switch back to diff. gauge		Prepare to fill in air/N2 to	Fill in air/N2 to IC. Wait til 50 Torr. Set control valve at 50 Torr.		Open TAMU lid.	Done. Get ready for next pumping cycle.		
Mechanical components: 0 means closed, 1 means open, 0.5 means in between (usually needs manual adjustment)											
AT-TPC is vacuum	1	(0	(0) (0 0) (0		
V1	0	(0	1	L C) (0 0) (1		
V2	1	1	1	1	1		1 1	. 1	1		
V3	1	1	1	1	l 1		1 1	. 1	1		
V4	1	1	1	1	l 1		1 1	. 1	1		
V5	0	() 0	(0) (0 () (0		
V6	0	(0	(0) (0 0) (0		
V7	0	(0	1	l 1		1 1	. 1	1		
V8	0.5	0.5	0.5	0.5	0.5	0.5	5 0.5	0.5	0.5		
gas regulator	1	1	0	(0) (0 () (0		
V10, IC-TAMU by-pass	0	(0	(0) (0 0) (1		
V11, MCP-TAMU by-pass	0	(0	(1		1 1	. 1	1		
V12, turbo for TAMU	1	1	1	1	ī 1	_	1 1	(0		
V13, turbo for MCP	1	1	. 1	1	ι 1	<u>.</u>	1 1	. (0		
V14, mech to turbos	1	1	. 1	1	L C) (0 (0		
V15, mech to GHS	1	1	1	1	L C) (0 0) (0		
V16, gas to GHS	1	() 0	(0) (0 0) (0		
V17, Room/N2 to GHS	0	(0	(0		1 1	. 1	0		
V18, Room/N2 to TAMU	0	(0	() 0	(0.5	1	0		
Components that run on ele	ctricity: 0 means off/clo	sed, 1 means on/open, 0	.5 means auto								
mech. pump for turbo	1	1	1	1	l 1		1 1	. 1	1		
mech. pump for GHS	1	1	1	1	l 1		1 1	. 1	1		
turbo for MCP	1	() 0	() 0) (0 () (0		
turbo for TAMU	1	(0	(0)	0 () (0		
control valve	0.5	(0	() 0	0.9	5 0.5	0.5	1		
diff. gauge	0	(1	1	l 1		1 1	. 1	1		
abs. gauge	1	1	0	() 0) (0 0) (0		
HV for IC, Si, MCP	1	(0	() 0) (0 0) (0		
HV for HPGe	1	1	1	1	1		1 1	. 1	1		
Pre. Amp of IC	1	() 0	() 0) (0 0) (0		
Regular gauge for TAMU	1	1	1	1	1 1		1 1	. 1	1		
Ion gauge for TAMU	1	(0	() 0) (0 () (0		
lon gauge for MCP	1	(0	(0)	0 0) (0		









