



# American Nuclear Society

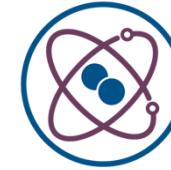
ANS Accelerators of Northern California

What is the ANS

ACCELERATORS  
PROGRAM ?



# ACCELERATORS PROGRAM



## Local Chapters

Nuclear science clubs at junior high and high schools. After launch, ANS supports with the coordination of local activities, presentations from nuclear professionals, visits to nuclear sites, etc. While chapters differ in program activities depending on locale, all are focused on learning about nuclear science and technology directly from nuclear professionals and engaging in ANS programming and resources.

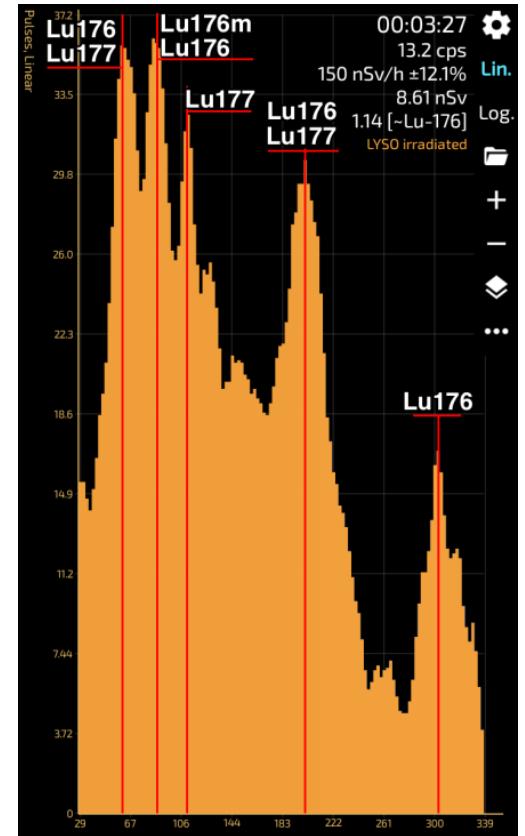
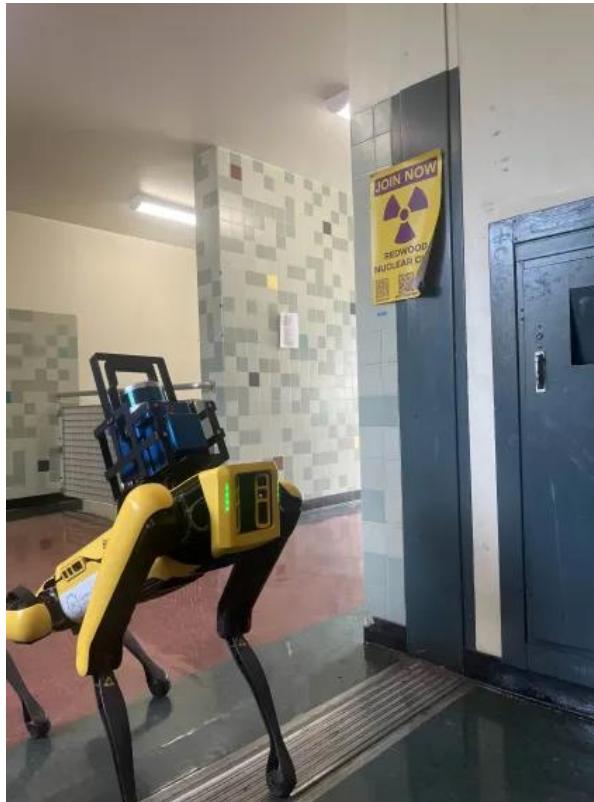
## National Chapter

The national chapter allows any junior high or high school student in the country to join a virtual cohort of like-minded students. Members have access to monthly virtual meetings that feature presentations and activities, virtual talks from nuclear industry professionals, mentorship and networking opportunities, etc.

# Rex and Lillian



# ANS Accelerators of Northern California



# Farnsworth–Hirsch Fusor Project

Item name	Item description (purpose/use)	Link	Price	Quantity	Status	Notes	UE questions
EStop	disable power to contactor	<a href="https://www.mouser.com/ProductDetail/TE-Connex">https://www.mouser.com/ProductDetail/TE-Connex</a>	25.87	1	Arrived	NO/NC	
Contactor	control current to fusor	<a href="https://www.mouser.com/ProductDetail/Hartland-1">https://www.mouser.com/ProductDetail/Hartland-1</a>	29.48	1	Arrived	NO?	
Selector	Stand	<a href="https://www.mouser.com/ProductDetail/EA0/704">https://www.mouser.com/ProductDetail/EA0/704</a>	23.01	2	Arrived	Notes	
KF50 → KF16 Cross (Reducer Cross)	Stainless Steel 4-way cross, suitable	<a href="https://www.ebay.com/itm/394680512034?_skw=1">https://www.ebay.com/itm/394680512034?_skw=1</a>	28.96	1	Arrived	Model	
KF50 → KF25 Conical Reducer	Stainless Steel conical reducer, KF50 → KF25	<a href="https://www.ebay.com/itm/275398018355?_skw=1">https://www.ebay.com/itm/275398018355?_skw=1</a>	22.9	1	Arrived	Model	No 50-25, only 25-50. That's fine.
KF40 to KF50 Reducer	For HV Feedthrough to Fit	<a href="https://www.ebay.com/itm/275398018355?_skw=1">https://www.ebay.com/itm/275398018355?_skw=1</a>	22.9	1	Arrived	Model	
KF-40 Feedthrough	HV Feedthrough	<a href="https://mpfpi.com/shop/power-feedthroughs/powerfeedthroughs">https://mpfpi.com/shop/power-feedthroughs/powerfeedthroughs</a>	266.23	1	Arrived	Model	
KF50 Viewport	Vacuum viewport (borosilicate), KF50	<a href="https://www.ebay.com/itm/314790356190?_skw=1">https://www.ebay.com/itm/314790356190?_skw=1</a>	139	1	Arrived	Model	
KF16 Metering Valve	Needle/metre valve for gas metering	<a href="https://www.ebay.com/itm/396889005347?_skw=1">https://www.ebay.com/itm/396889005347?_skw=1</a>	74	1	Ordered	Notes	
KF16 Tee Fitting	3-way KF16 tee for gauge or branch	<a href="https://www.ebay.com/itm/402477881622?_skw=1">https://www.ebay.com/itm/402477881622?_skw=1</a>	22.8	1	Arrived	Model	out of stock
KF16 Butterfly Valve	Manual throttle/valve for vacuum	<a href="https://www.amazon.com/EASTVAC-KF16-vacuum">https://www.amazon.com/EASTVAC-KF16-vacuum</a>	47.5	1	Arrived	Notes	
KF16 Bellows (24")	Flexible stainless bellows, vacuum	<a href="https://www.ebay.com/itm/225859411655?_skw=1">https://www.ebay.com/itm/225859411655?_skw=1</a>	44.89	1	Arrived	Notes	
KF16 Clamps & Centering Rings (qty 6)	Quick flange clamps + centering ring	<a href="https://www.ebay.com/itm/383473701099?_skw=1">https://www.ebay.com/itm/383473701099?_skw=1</a>	10.99	6	Arrived	Notes	
KF50 Clamps & Centering Rings (qty 2)	KF50 quick flange hardware	<a href="https://www.ebay.com/itm/383773674659?_skw=1">https://www.ebay.com/itm/383773674659?_skw=1</a>	25.99	2	Arrived	Notes	
KF25 Clamp & Centering Ring	KF25 flange hardware	<a href="https://www.ebay.com/itm/372745882559?_skw=1">https://www.ebay.com/itm/372745882559?_skw=1</a>	15.68	1	Arrived	Notes	out of stock
KF50 Blank Flanges (2)	Blank-off flange, KF50	<a href="https://www.ebay.com/itm/225869071760?_skw=1">https://www.ebay.com/itm/225869071760?_skw=1</a>	13.79	2	Arrived	Model	
KF16 Blank Flanges (2)	Blank-off flange, KF16	<a href="https://www.ebay.com/itm/225869071760?_skw=1">https://www.ebay.com/itm/225869071760?_skw=1</a>	8.27	2	Arrived	Model	
KF25 Blank Flange (1)	Blank-off flange, KF25	<a href="https://www.ebay.com/itm/225869071760?_skw=1">https://www.ebay.com/itm/225869071760?_skw=1</a>	6.43	1	Arrived	Model	
Transformer	Transformer that Rex purchased		400	##	Arrived	Notes	
Vacuum Pump	Vacuum Pump that Rex purchased		225	##	Arrived	Notes	
Item name	Item description (purpose/use)		##	##	Arrived	Notes	
Item name	Item description (purpose/use)		##	##	Arrived	Notes	
Variac	Item description (purpose/use)	<a href="https://volteq.com/variac-5kva-variable-transformer">https://volteq.com/variac-5kva-variable-transformer</a>	184.95	##	Arrived	Notes	
Item name	Item description (purpose/use)		##	##	Arrived	Notes	
*Vacuum Relief Valve	relieves pressure from		##	##	Arrived	Notes	
Item name	Item description (purpose/use)		##	##	Arrived	Notes	
Hookup 18awg black	Item description (purpose/use)	<a href="https://www.mouser.com/ProductDetail/TE-Connex">https://www.mouser.com/ProductDetail/TE-Connex</a>	1.74	20	Arrived	Notes	
Hookup 18awg blue	Item description (purpose/use)	<a href="https://www.mouser.com/ProductDetail/TE-Connex">https://www.mouser.com/ProductDetail/TE-Connex</a>	1.69	10	Arrived	Notes	
Hookup 18awg white	Item description (purpose/use)	<a href="https://www.mouser.com/ProductDetail/TE-Connex">https://www.mouser.com/ProductDetail/TE-Connex</a>	1.57	10	Arrived	Notes	
Hookup 18awg red	Item description (purpose/use)	<a href="https://www.mouser.com/ProductDetail/TE-Connex">https://www.mouser.com/ProductDetail/TE-Connex</a>	1.7	10	Arrived	Notes	