

Barrel TOF

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Database

Component Database Portal

Username: gngimat
Role: User
Reset Session
View: gngimat
Project: All

Grid/ID Search Supplemental Settings Logout About

Catalog Item Details

Name: BTOF Stavelet
Model Number: /
Alternate Name: /
Project: Sample
Description: Test stavelet
Technical System: Other
Function: -
Created from template: N/A

Properties: eTraveler Templates, Assembly Listing, Sources, Inventory

+ Add + Create Many Edit Many Track Spares

More Info	Tag	Grid	Serial Number	Primary Image	Description	Location	Housing	Status	Actions
Unit: 0001	-	0001	0001		stavelet test item #1	BLDG-911	BTOF Stavelet	-	i *
Unit: 0002	-	0002	0002		stavelet test item #2		BTOF Stavelet		i *
Unit: 0003	-	0003	0003		stavelet test item #3		BTOF Stavelet		i *
Unit: 0004	-	0004	0004		stavelet test item #4		BTOF Stavelet	Inspected/Tested/Certified	i *

Item Membership

Part Of	Membership By	Domain	Description	Owner	Group
BTOF Stavelet	Unit: 0001	Machine Design	BTOF Stavelet	gngimat	DETECTOR
BTOF Stavelet	Unit: 0002	Machine Design	BTOF Stavelet	gngimat	DETECTOR
BTOF Stavelet	Unit: 0003	Machine Design	BTOF Stavelet	gngimat	DETECTOR
BTOF Stavelet	Unit: 0004	Machine Design	BTOF Stavelet	gngimat	DETECTOR

- Successfully connected to the BNL instance of the CDB (Maxim Potekhin created a specific account and role)
- Created several components (e.g., stavelet and ASIC)
- Created multiple stavelet instances
- Defined a BTOF design (i.e., assembly procedure/inheritance): BTOF → single stave → 4 stavelet
- Currently exploring the properties that can be assigned to and defined for the relevant objects

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Grid/ID Search Supplemental Settings Logout About

Machine: Housing Hierarchy

+ Add Export

Machine Element Name	Q	Grid	Machine Element Description	Assigned Item	Location	Actions
BEMC	<input checked="" type="checkbox"/>	-	Barrel Electromagnetic Calorimeter		CUA/Room1	i *
BTOF	<input checked="" type="checkbox"/>	-	Barrel Time-of-Flight subsystem			i *
BTOF Stave	<input checked="" type="checkbox"/>	-	Stave consists from the four stavelets			i *
BTOF Stavelet	<input checked="" type="checkbox"/>	-	BTOF Stavelet	BTOF Stavelet - [Unit: 0001]	BLDG-911	i *
BTOF Stavelet	<input checked="" type="checkbox"/>	-	BTOF Stavelet	BTOF Stavelet - [Unit: 0002]		i *
BTOF Stavelet	<input checked="" type="checkbox"/>	-	BTOF Stavelet	BTOF Stavelet - [Unit: 0003]		i *
BTOF Stavelet	<input checked="" type="checkbox"/>	-	BTOF Stavelet	BTOF Stavelet - [Unit: 0004]		i *



- Now we even have a base of ePIC stickers!

Brookhaven National Laboratory
Component Database Portal

Username: gnigmat
Role: User
Reset Session
View: gnigmat
Project: All

Browse Catalog Inventory Design MAARC QrId/ID Search Supplemental Settings Logout About

Catalog Item Details

Name: ePIC Sticker
Model Number:
Alternate Name:
Project: Sample
Description: ePIC stickers printed for the collaboration meetings
Technical System: Other
Function: -
Created from template: N/A

Edit Delete More Info Permalink Return

Gallery Log Entries Ports

Properties
eTraveler Templates
Assembly Listing
Sources
Inventory

+ Add + Create Many Edit Many Track Spares

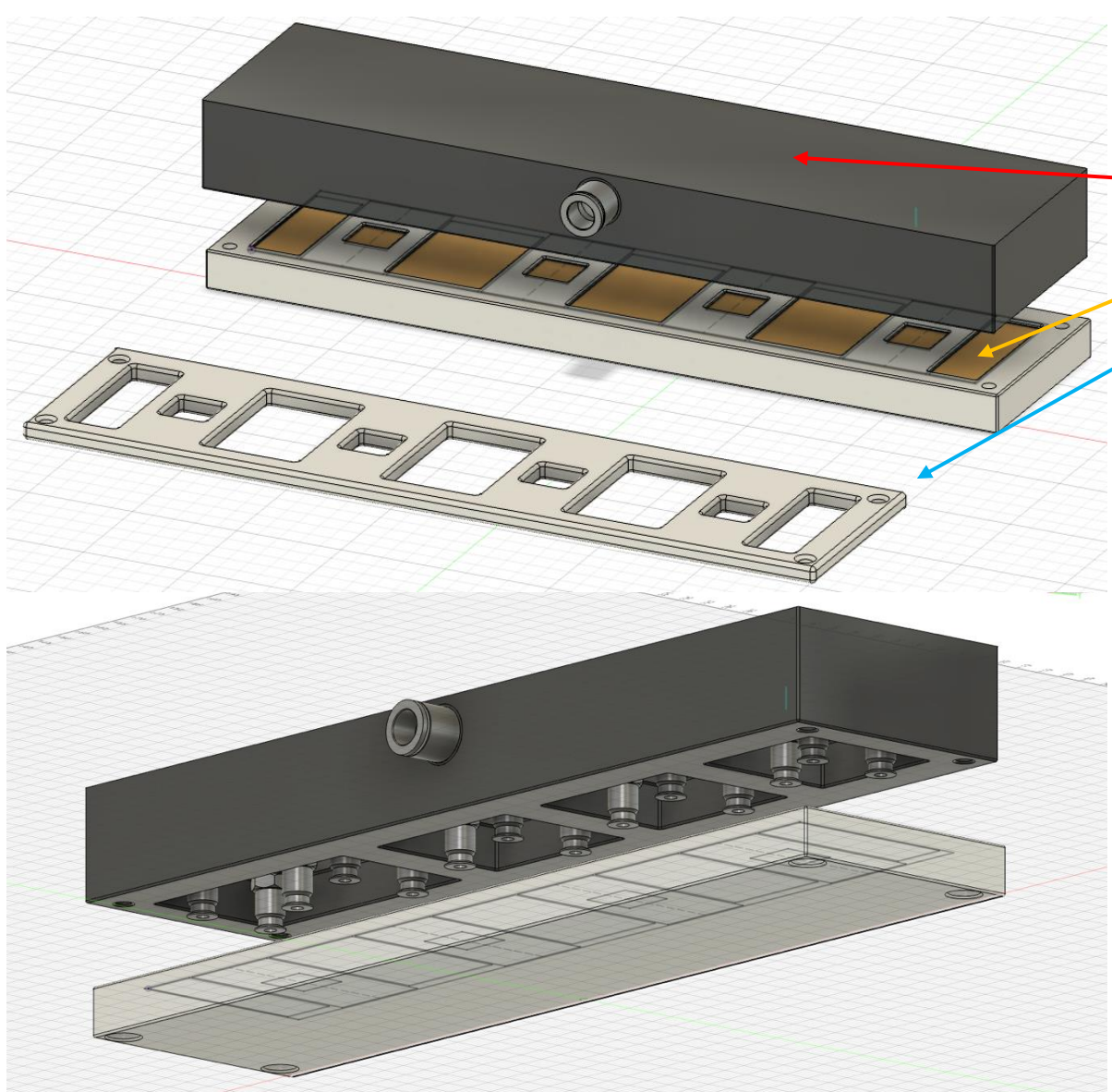
More Info	Tag	QrId	Serial Number	Primary Image	Description	Location	Housing	Status	Actions
>	202601	-	0023		Sticker for the collaboration meeting in July 2025			Available	i *
>	202507		0057		From the collaboration meeting in July 2025			Available	i *

Item Membership

ePIC Sticker - [202601]

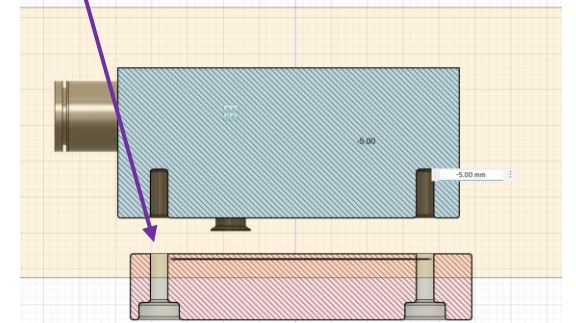
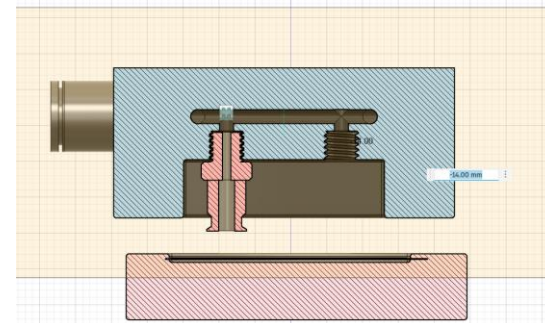


Vacuum Jig Prototype for BTOF stavelet assembly



Vacuum jig (fixture) will be used to pick up components (sensors and ASICs) from the holder to place them into the interposer.

For positioning, the align pins will be used as well as the assembly fixture





For SPS Test Beam

In-person travel to test beam:

- UIC can provide 1 person

List of equipment:

- Cooling blocks for “standard” Fermilab boards
- CAEN HV 4-channel power supply (DT5519EN)
- CAEN 16-channel digitizer (DT5742B)
- Mounting plate (a.k.a. optical breadboard)
- Experience of designing and fabricating various suitcases and enclosures for test beams (w/ and w/o cooling)

