



## Abstract

Radiopurity.org is a community tool used by several experiments. Originally, it comes from the AARM collaboration and recently it went through an upgrade via a common effort within LRT the

Designing building and C radioactively 'clean' requires considerable effort.

A good record keeping is essential and sharing results is invaluable.

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## Radiopurity Version 2.0

**Open source code:** https://github.com/pnnl/Radiopuritydatabase-assistant

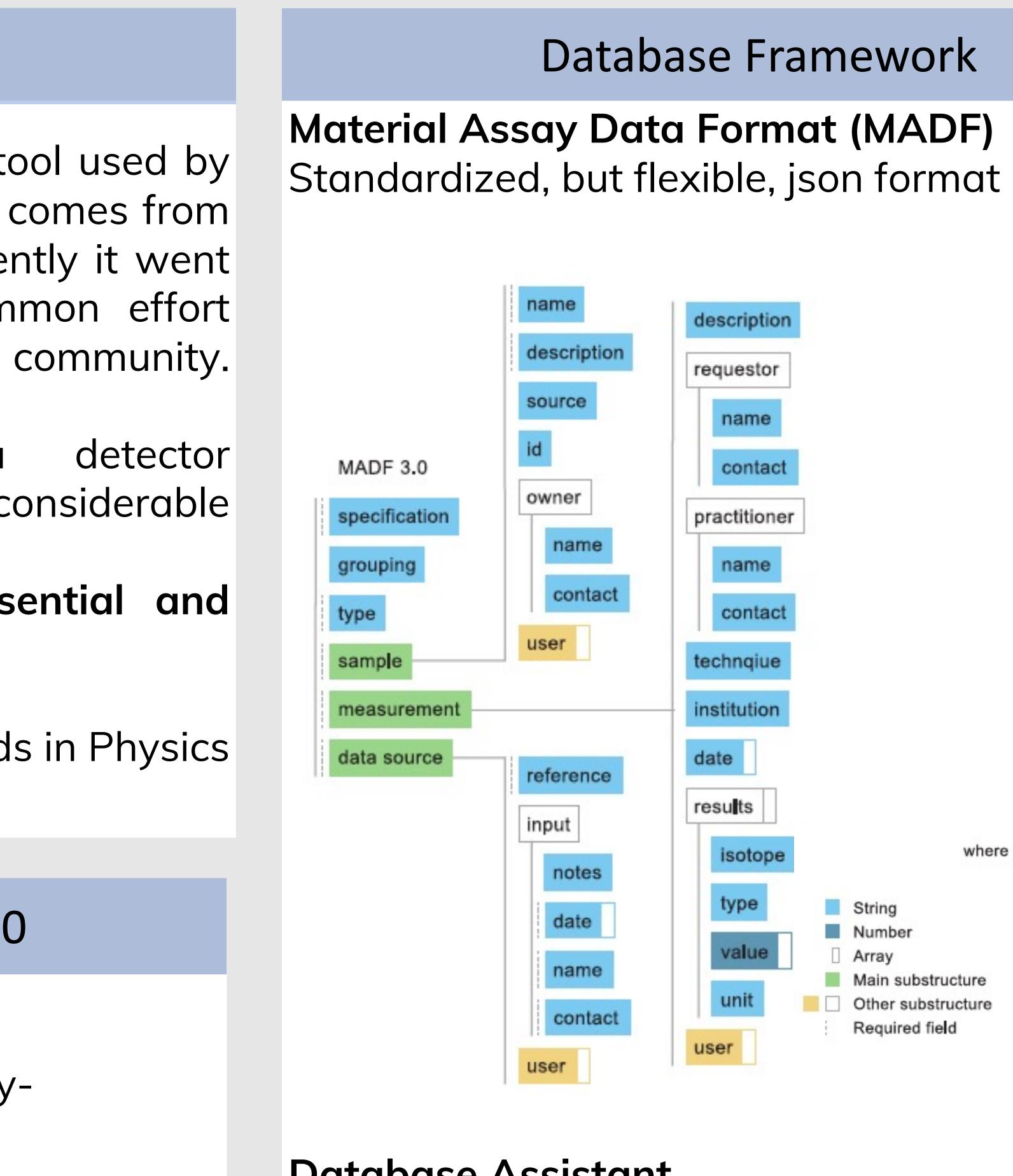
### MongoDB Database and python-based toolkit

Up-to-date standardized codebase

# Improved structure, ability to modify

'old versions' collection in database to track changes to entries (linked by document ID)





Database Assistant NEW! Open source format for storing, displaying and manipulating MADFs.

Public instance maintained by SNOLAB https://www.radiopurity.org/ Can share results easily with community when ready.



# Radiopurity.org **A Community Material Assay Database**

## Guided Data Entry Searching capabilities Search all Summary information changes Synonyms - New Published flag - New **Advanced Search** Unit conversion - New New data added (Xenon1T, LRT 2010) Data Entry - New Data Update - New radiopurity.org SNOLAB documentatio String Number Array Main substructure Other substructure or Required field Search for records contain include synonyms Contact Us Let us know if you are interested to use

other feedback!

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					GitHub
dvanced search	insert	update		logout	
Query	Assistant				
		1 Bq U-238/kg	= 81	L ppb U	(80 x 10 <sup>-9</sup> gU/g)
		1 Bq Th-232/kg	= 24	6 ppb Th	(246 x 10 <sup>-9</sup> gTh/g)
		1 Bq K-40/kg	= 32	2300 ppb K	(32300 x 10 <sup>-6</sup> gK/g)
		1 Bq U-235/kg	= 1.	76 ppm U	(1.76 x 10 <sup>-6</sup> gU/g)
ing the term					
S		1 Bq U-238/kg = 81 ppb U (80 x 10 <sup>-9</sup> gU/g)   1 Bq Th-232/kg = 246 ppb Th (246 x 10 <sup>-9</sup> gTh/g)   1 Bq K-40/kg = 32300 ppb K (32300 x 10 <sup>-6</sup> gK/g)			
		advanced search			

the database in your experiment.

Contact us with new data to share or any

# radiopurity@snolab.ca