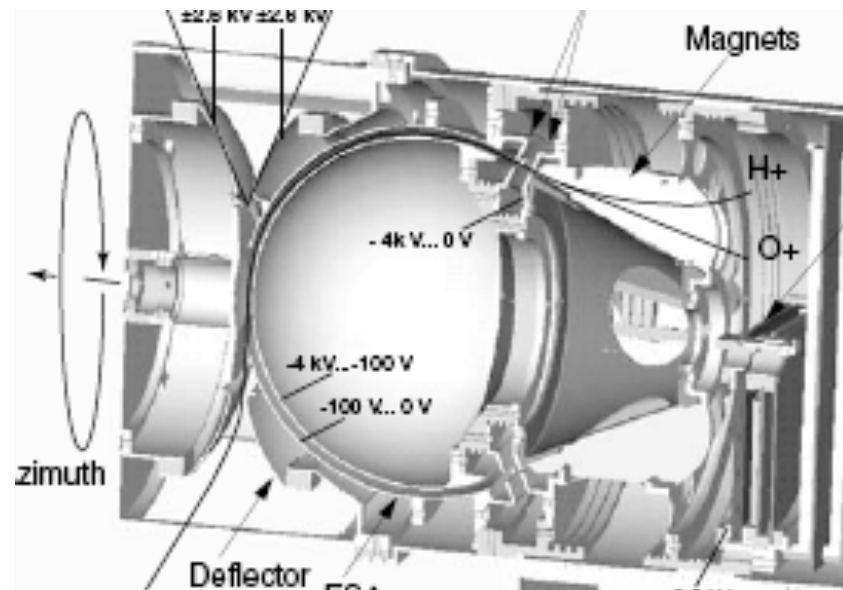
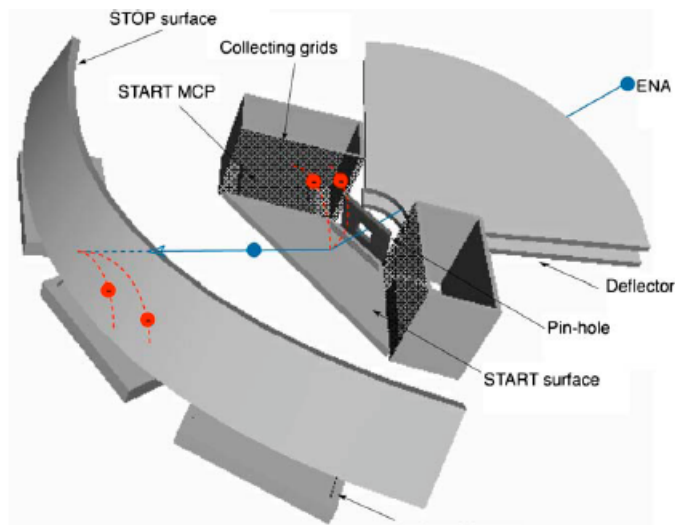
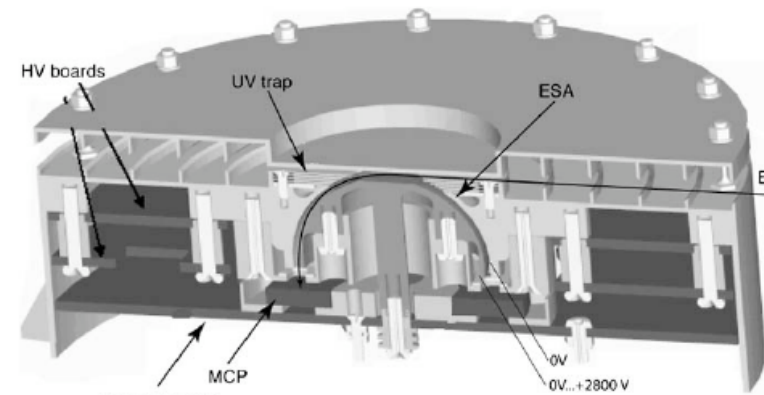
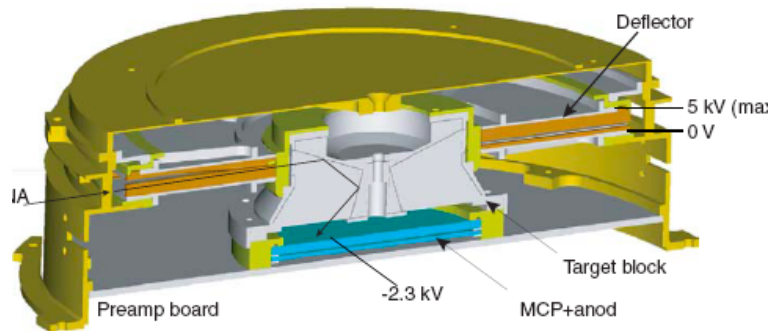


Review of ASPERA

by M. Yamauchi

2008-11-27



after Barabash et al., 2006 (SSR)

Eating Specialist Agency (ESA)

- * Tradition of slow enjoyable eating (cf. fast food of USA)
with Quartet, Planck, and Colombo-aged food

Eating Specialist Agency (ESA)

- * Tradition of slow enjoyable eating (cf. fast food of USA)
- * **However, Chinese and Indian food came in.**
- => Eat fast while keeping dinner quality to compete !**

Eating Specialist Agency (ESA)

- * Tradition of slow enjoyable eating (cf. fast food of USA)
- * However, Chinese and Indian food came in.
=> Eat fast while keeping dinner quality to compete !
- * Need an **"Express"** and **"Delicious"** food concept.
=>

Mars Express ???

Eating Specialist Agency (ESA)

- * Slow enjoyable eating (cf. fast food of USA)
- * However, Chinese and Indian food came in.
=> Eat fast while keeping dinner quality to compete !
- * Need an **"Express"** and **"Delicious"** food concept.

=>

~~Mars~~ Express
Mat (=food)

The SPC delegations have decided to accept the implementation of Mars Express with the condition that funds are available. This condition behooves the executive to secure the funding for Mars Express which in any case will proceed as planned with a Phase B start shortly. Further details will be forwarded to you later in the week.

Eating Specialist Agency (ESA)

~~Mars~~ Express
Mat (=food)

* We have heritage of
Russian/Japanese migration to Europe:

"Yes we can change" of the
express-food concept with Mars
Express/ASPERA.



Aspera Aspirations

A NEWSLETTER FOR ASPERA-3 · No 1 · 2000



Search for
water

**Understanding water is essential
during quick cocking**



Aspera Aspirations

A NEWSLETTER FOR ASPERA-3 · No 1 · 2000



Search for
water

**Understanding water is essential
during quick cocking
of particularly octopus**

Pre-menu

First ASPERA-3 meeting (pre-kick-off meeting)

4 September, 1997
Swedish Institute of Space Physics
Aniara room

Meeting program

General part

09:00-09:05 Welcome (S. Barabash, IRF)

09:05-09:25 Summary of the ASPERA-3 experiment and general work distribution (S. Barabash, IRF)

09:25-09:45 ASPERA-3 master schedule and deliverables (J. Gimholt, IRF)

Presentation of the Co-I groups

(Suggested outline:

1. Team members and responsibilities. Point of contact(!)
2. Description of group's contribution
3. Funding activities and progress)

09:45-10:10 IRF (J. Gimholt)

10:10-10:25 *Coffee break*

10:25-10:50 FMI (H. Koskinen)

10:50-11:15 IFSI (S. Orsini)

11:15-11:50 MP Ae (J. Woch)

11:50-12:15 SwRI (D. Winningham)

12:15-13:15 *Lunch*

13:15-13:50 RAL (M. Grande)

13:50-14:15 CESR (J.-A. Sauvaud)

14:15-14:50 IKI (A. Fedorov)

14:50-15:15 APL (E. Roelof)

15:15-15:35 *Coffee break*

15:35-15:40 The kick-off meeting date (suggested date: 16 - 17 November, IRF, Kiruna)

15:40-16:00 ASPERA-3 logo idea

End of meeting

kick-off meeting

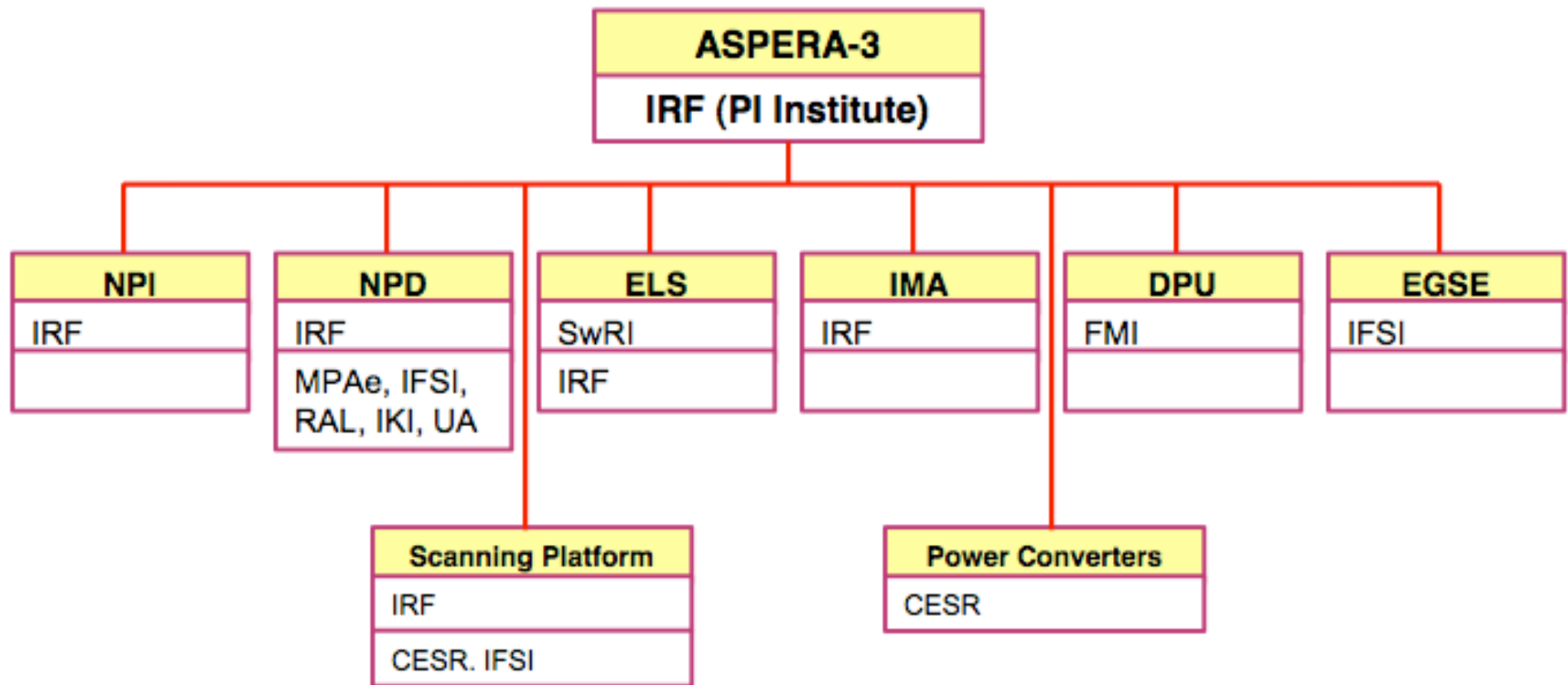
ASPERA-3

General work distribution



ASPERA-3
General work distribution
to cook octopus

kick-off meeting



Aspera-3 team cook **all 8 legs** with 15 cooks

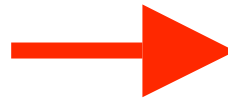
And, we must cook “express”

We should rely on each cook, for own specialty

Stas changed job to become a "cook"



Rickard Lundin is the Aspera-3
Principal Investigator.



SwRI, UA (S-USA): Beef & quick Mexican

APL, SPRL, SSL (N-USA): Turkey

MSSL, RAL (UK): tea + roast beef

CESR (FR): Brandy

ISAS (JP): Sake

UBe (SW): Schnaps

STIL (IR): Whisky

IFSI (IT): Spaghetti

FMI (FI): Everything is mixed in the laatikko,

MPS (DE): Beer

IKI (RU): Vodka

IRF (SE): reindeer

**SwRI (USA): Beef & quick Mexican
i.e., high mobility staff (ELS)**

**UA (USA): Beef & quick Mexican
i.e., high mobility staff (UV)**

SwRI, UA (USA): Beef & quick Mexican
i.e., high mobility staff (ELS, UV)

MSSL (UK): tea
i.e., light staff (ELS)

RAL (UK): roast beef
i.e., thin staff (MCP)

SwRI, UA (USA): Beef & quick Mexican
i.e., high mobility staff (ELS, UV)

MSSL, RAL (UK): tea + roast beef
i.e., light or thin staff (ELS, MCP)

CESR (FR): Brandy
i.e., heavy staff (IMA)

SwRI, UA (USA): Beef & quick Mexican
i.e., high mobility staff (ELS, UV)

MSSL, RAL (UK): tea + roast beef
i.e., light or thin staff (ELS, MCP)

CESR (FR): Brandy
i.e., heavy staff (IMA)

ISAS (JP): Sake
i.e., UV sensitive staff (NPI)

SwRI, UA (USA): Beef & quick Mexican

i.e., high mobility staff (ELS, UV)

MSSL, RAL (UK): tea + roast beef

i.e., light or thin staff (ELS, MCP)

CESR (FR): Brandy

i.e., heavy staff (IMA)

ISAS (JP): Sake

i.e., UV sensitive staff (NPI)

UBe (SW): Schnaps

STIL (IR): Whisky

i.e., direct hit staff (NPD)

SwRI, UA (USA): Beef & quick Mexican

i.e., high mobility staff (ELS, UV)

MSSL, RAL (UK): tea + roast beef

i.e., light or thin staff (ELS, MCP)

CESR (FR): Brandy

i.e., heavy staff (IMA)

ISAS (JP): Sake

i.e., UV sensitive staff (NPI)

UBe (SW): Schnaps

STIL (IR): Whisky

i.e., direct hit staff (NPD)

IFSI (IT): Spaghetti

i.e., complicated staff (NPD, EGSE, Scanner)

**FMI (FI): Everything is mixed in the laatiko,
i.e., black box (DPU and simulation)**

FMI (FI): Everything is mixed in the laatiko,
i.e., black box (DPU and simulation)

MPS (DE): Beer
i.e., digest fast (electronics)

FMI (FI): Everything is mixed in the laatiko,
i.e., black box (DPU and simulation)

MPS (DE): Beer
i.e., digest fast (electronics)

IKI (RU): Vodka
i.e., exact % required (model)

FMI (FI): Everything is mixed in the laatiko,
i.e., black box (DPU and simulation)

MPS (DE): Beer
i.e., digest fast (electronics)

IKI (RU): Vodka
i.e., exact % required (model)

APL, SPRL, SSL (USA): Turkey
i.e., application staff (model)

FMI (FI): Everything is mixed in the laatiko,
i.e., black box (DPU and simulation)

MPS (DE): Beer
i.e., digest fast (electronics)

IKI (RU): Vodka
i.e., exact % required (model)

APL, SPRL, SSL (USA): Turkey
i.e., application staff (model)

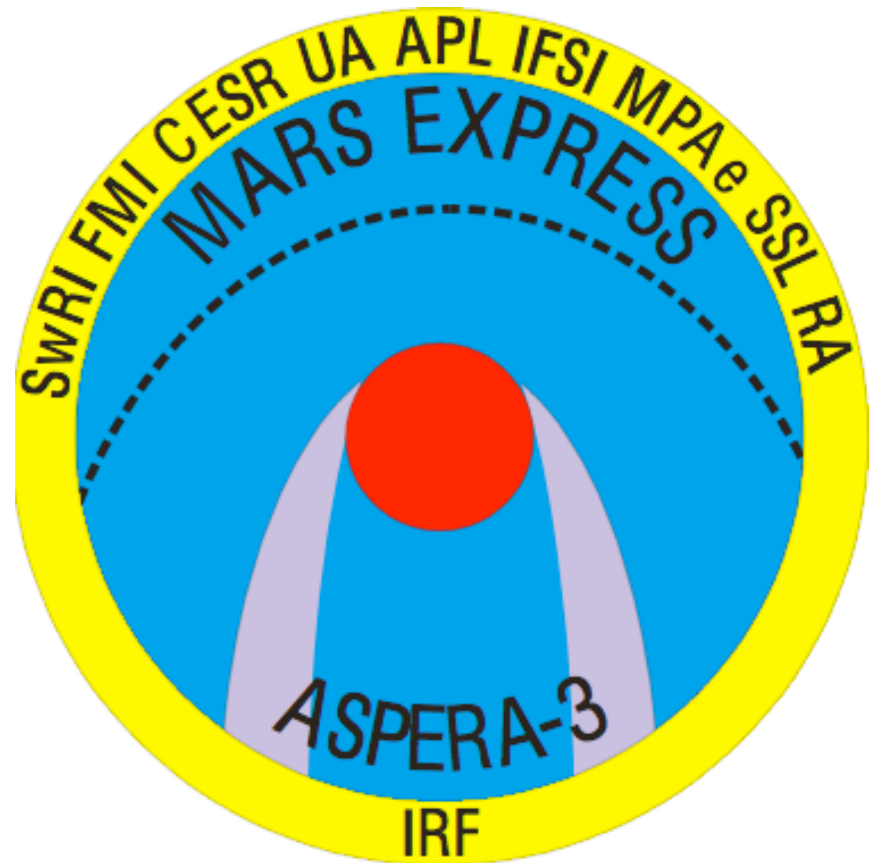
IRF (SE): reindeer
i.e., exotic staff (main dish)

kick-off meeting

Critical Item	Main	Support	Backup	Criticality
MCPs				
-NPI	CESR	-	IRF	low
-NPD	CESR	RAL	RAL	high
-IMA	SwRI	NA	NA	low
-ELS	SwRI	NA	NA	low
Preamplifiers				
-NPD	MPAe	IFSI	-	high
-NPI	IRF	SwRI	NA	secured
-IMA	IRF	SwRI	NA	secured
-ELS	IRF	SwRI	NA	secured
Power				
-DC/DC LV	CESR	-	-	medium
-DC/DC HV	IRF	-	-	secured
-HV Opto	IRF	NA	NA	secured
-Relays	CESR	-	-	medium
DPU				
-CPU	FMI	-	-	low
-RAMs	FMI	-	-	low
-ACTEL	FMI	-	-	low
-AD/DA	FMI	-	-	low
Motorsystem				
-Motors	CESR	IRF	IRF	low
-Drive syst.	CESR	IRF	IRF	low
-Mechanics	IRF	IFSI	-	low
ACTEL				
-NPI	IRF	NA	FMI	low
-NPD	FMI	-	-	low
-IMA	IRF	NA	SwRI	low
-ELS	SwRI	NA	NA	secured
Thermal H/W				
-MLI Blankets	?	?	IRF	high

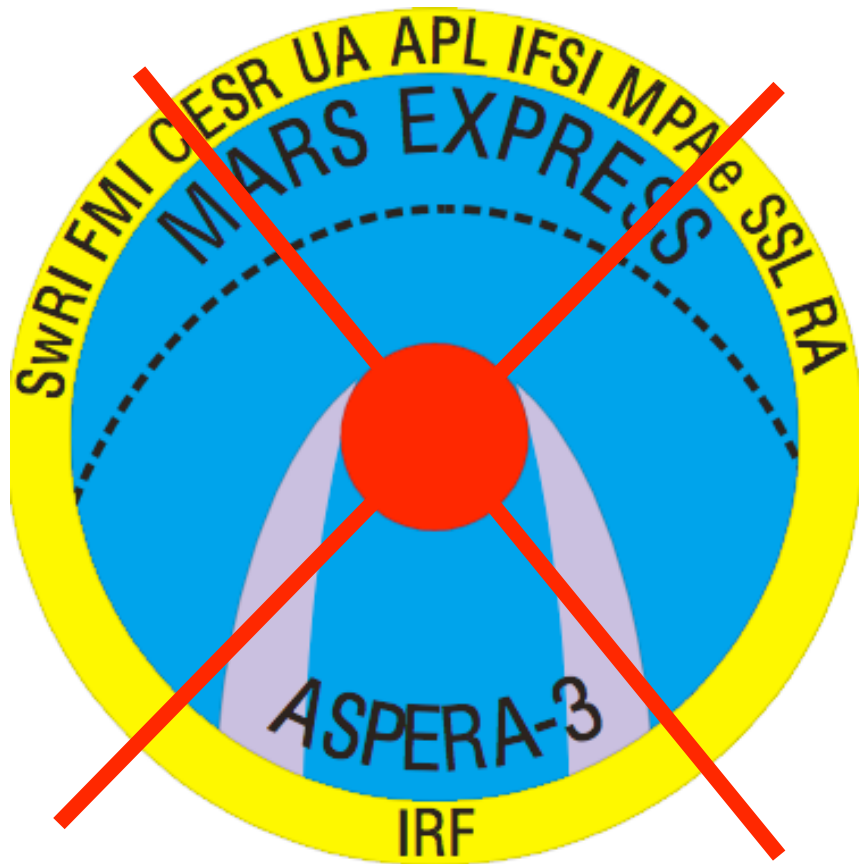
logo

Has to represent **octopus** dishes



logo

Has to represent **octopus** dishes



logo is finally set after 2 meetings



Team Meeting 7th-8th of June 1999

Viewgraphs from the meeting held at "Karleby Kro"



History of ASPERA meetings

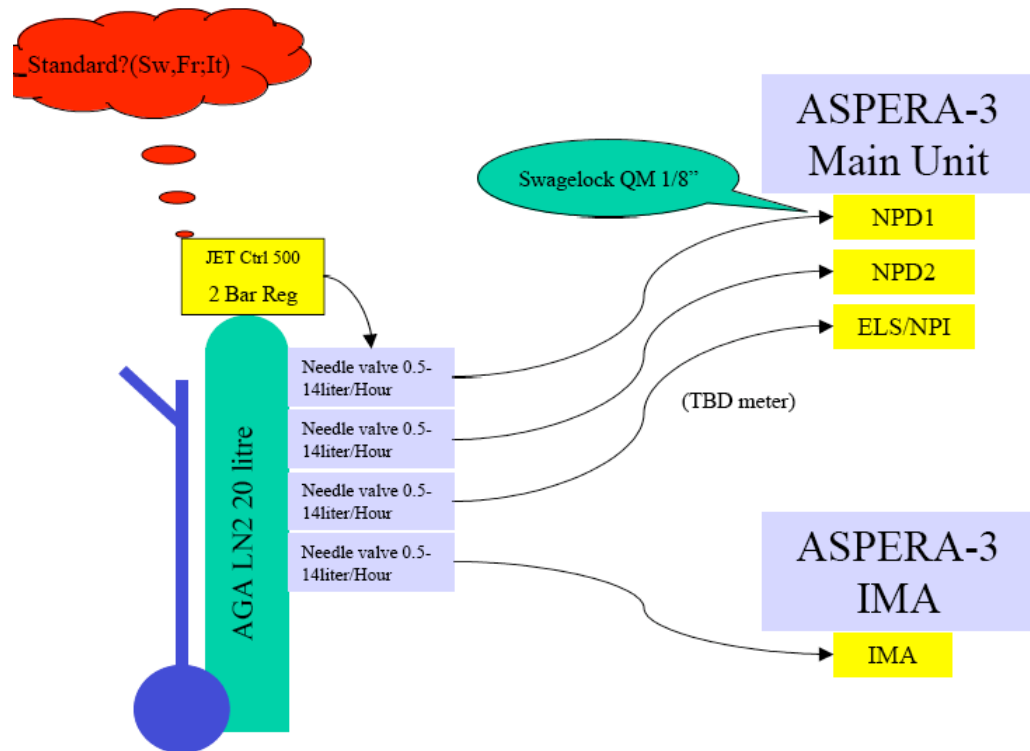
ASPERA-3	ASPERA-4	Dates	Place	Special events to remember
1 (pre-kick-off)		Sept. 4, 1997	Kiruna	
2 (kick-off)		Nov.16-17, 1998	Kiruna	
3		June 7-8, 1999	Skåne	Exclusive hotel. Exceptional food
4		Oct. 4-6, 1999	Rome	Rome
5		Feb. 22-23, 2000	Kiruna	
6		Aug. 29-30, 2000	Finland	REAL Finnish meeting. Kiljavan opisto
7		March 6-7, 2001	Kiruna	Reindeer-Race, Snow-Shoe-Race Snowmobile Safari to world famous Ice Hotel in Jukkasjärvi
8	1 (kick-off)	Nov. 5-8, 2002	Kiruna	Vine testing (Six sorts of Portugal vines)
9	2	Aug. 20-22, 2003	Kiruna	Hiking to Trollsjön. All wet. Mars watching. Great opposition. Dinner lecture on Mars
10	-	March 17-19, 2004	Kiruna	Extraordinary MEX meeting. First results
11	3	Aug. 4-6, 2004	Kiruna	
12	4	May 1-3, 2005	Vienna	Combined with EGU. Very old conference room Vienna old town (Heiligenkreuzer Hof)
13	5 (no numb.)	Nov. 10, 2005	Telecon	Hi-Tech worked
14	6 (4*)	March 2-3, 2006	Kiruna	
15	7 (5*)	Oct. 9-11, 2006	Kiruna	
16	8 (6*)	May 9-11, 2007	Stockholm	Långholmen prison. Largest meeting (36)
17	9 (7*)	Nov.7-9, 2007	Toulouse	COSMANOVA exhibition
18	10 (8*)	May 14 – 16, 2008	Uppsala	
19	11	Nov. 26-28, 2008	Kiruna	10 th anniversary of the team

* wrong numbering of ASPERA-4 meetings

Last update 2008-11-19

After struggles....

e.g., with tooooo many legs



Kiruna, 2000-02-22



started operation 5 years ago

Result

of 5 years in operation the menu

Water?

Science/GRL publication for MEX

Nature publication for VEX