

Next meeting and later

2020/11/10

IDT WG2 DR/BDS/DUMP subgroup meeting

Toshiyuki OKUGI, KEK

3rd Meeting of DR/BDS/DUMP subgroup

 Tuesday 27 Oct 2020, 22:00 → 23:00 Asia/Tokyo

- 22:00** → 22:20 **Fast Ion Instability (Feedback) / Electron Cloud Instability in ILC damping ring** 🕒 20m
Speaker: Toshiyuki Okugi (KEK)
- 22:20** → 22:40 **Anti-solenoid and Anti-DID** 🕒 20m
Speaker: Karsten Buesser (DESY)
 201027_Anti-DID.pdf
- 22:40** → 23:00 **Next meeting and later** 🕒 20m
Speaker: Toshiyuki Okugi (KEK)

Announcement

The following 4 persons were invited to today's subgroup meeting in order to discuss the technical preparation for the ILC kicker discussion.

Mike Barnes (CERN)

Simone Gilardoni (CERN)

Fernando Toral (CIEMAT)

Seadat Varnasseri (ESS-Bilbao)

Meeting Schedule

Technical preparation, which is recommended by KEK ILC international WG
Technical preparation, which is necessary to write EDR

10/02	<i>Overall for DR/BDS</i>
10/13	<i>Beam Dump</i>
10/27	<i>FII (DR feedback), Electron cloud instability</i>
10/27	<i>Anti-DID, Anti-solenoid</i>
11/10	<i>Fast kickers / Injection kicker for e-driven positron source</i>
11/24	<i>Crab cavity (joint meeting with SCRF group ?)</i>
11/24	<i>Final doublet</i>
11/24	<i>Permanent magnet</i>
12/8	<i>Long-term stability test of IP beam size and position at ATF</i>
12/22	<i>Discussion about the summary table of DR/BDS/DUMP</i>

	Grade	Items	Technical Preparation	human resources [FTE]	budget [kUS\$]	candiate collaoration	Presenter	Date
Damping Ring	A	Fast kicker	Long-term stability test			ATF (ATF3) collaboration		
	A		Feedback : system design	0.2	10	N/A	Toshiyuki Okugi	2020/10/27
	A	Fast Ion Instability	Feedback : damping time test	5	1000	DAΦNE	Toshiyuki Okugi	2020/10/27
	B		Evaluation by simulation	1	20	Diamond, Cornell	Toshiyuki Okugi	2020/10/27
	B	Electron Cloud	Evaluation by simulation	1	10	Diamond, Cornell	Toshiyuki Okugi	2020/10/27
	B (?)	Parmanent Magnet	System design					
	B (?)	Injection kicker for e-driven P-source	System design					
			RF system	Prototype test	N/A	N/A	N/A	N/A
			Wiggler Magnet	Prototype test	N/A	N/A	N/A	N/A
BDS, MDI	A	ATF3	Long-term stability test			ATF (ATF3) collaboration	Angeles Faus-Golfe	
	B		System design (include the anti-solenoid)				Brett Parker	
	B	Final doublet (incl. Anti-solenoid)	Vibration test				Brett Parker	
	B (?)	Crab cavity	System design				Yasuchika Yamamoto	
		Anti-solenoid	System design and vibration test			considered within FD package	Karsten Buesser	2020/10/27
		Anti-DID	System design			considered as detector matter	Karsten Buesser	2020/10/27
Beam Dump	A	17MW main dump	System design of water flow system				Nobuhiro Terunuma	2020/10/13
	A		System design of window sealing and remote exchange				Nobuhiro Terunuma	2020/10/13
	A		System design of countermeasure for failure				Nobuhiro Terunuma	2020/10/13
	A/B (?)		Robustness test of window				Nobuhiro Terunuma	2020/10/13
	B	300kW photon dump	System design				Nobuhiro Terunuma	2020/10/13
Rank	A	Technical preparation, which is recommended by KEK ILC international WG						
	B	Technical preparation, which is necessary to write EDR						

Next meeting

- We will have **a joint subgroup meeting with SCRF group**

Data: 2020/11/24 TUE

- ✓ 22:30-23:00 Japan
- ✓ 14:30-15:00 Europe
- ✓ 05:30-16:00 San Francisco
- ✓ 07:30-08:00 Chicago

Topics ; Crab cavity (presented by Yasuchica Yamamoto)

Connection will be announced, when it will be decided.

- **The next DR/BDS/DUMP subgroup meeting** will be held on

Data: 2020/11/24 TUE

- ✓ 23:00-24:00 Japan
- ✓ 15:00-16:00 Europe
- ✓ 06:00-07:00 San Francisco
- ✓ 08:00-09:00 Chicago

Connection : CERN Vidyo <https://vidyoportal.cern.ch/join/iA6ppK4CYW> (no password)

Permanent magnet (presented by Stephen Brooks, Ben Shepherd ?)

⇒ The following persons were recommended with the discussion.

- ✓ Stephen Brooks (BNL)
- ✓ Juan Luis Muñoz (ESS- Bilbao)
- ✓ Jim Clarke (STFC)
- ✓ Ben Shepherd (STFC)

Final doublet (presented by Brett Parker)