

# Asian Regional Efforts about ILC

IHEP, Beijing

February 7, 2007

Won Namkung, PAL

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*ALCSC, an Ad hoc Committee under ACFA,  
represents ACFA to*

*ILCSC and coordinating to ILC-Asia Regional Office.*

*ACFA LC/GDE, Beijing, W. Namkung, Feb. 7, 2007*

## ALCSC Mandate: the 2<sup>nd</sup> Phase (2006 ~2008)

*The ALCSC will:*

- *On behalf of ACFA, foster the growth of LC activities in ACFA member region.*
- *Promote the International Linear Collider and make every effort to host the project in Asia.*
- *Interface/coordinate/monitor and advice ILC-Asia on accelerator and detector R&D as well as physics studies in the region.*
- *Communicate and liaise with American and European LCSC's and represent ACFA views to the ILCSC.*

ALCSC: regional representatives (2006 ~ 2008)

*W. Namkung (PAL, Pohang), Chair*

*G. Taylor (U. Melbourne, Melbourne)*

*Jie Gao (IHEP, Beijing)*

*Rohini Godbole (IISc, Bangalore)*

*Satoru Yamashita (U. Tokyo, Tokyo)*

*H. B. Park (KNU, Daegu)*

*Y. B. Hsiung (NTU, Taipei)*

*L.H. Khiem (IOP, Hanoi)*

*Angelina Bacala (MSU-IIT, Mindanao)*

## ILC-related Collaboration Agreements

(1) GDE-MOU (2005)

*CAT, CHEP, IHEP, KEK, PAL*

(2) ILC-Asia MOU (2005)

*CAT (Indore, India)*

*CHEP (Daegu, Korea)*

*IHEP (Beijing, China)*

*KEK (Tsukuba, Japan)*

*PAL (Pohang, Korea)*

*TIFR (Mumbai, India)*

(3) ATF-MOU (2005)

*IHEP, PAL, Tokyo, Kyoto, Nagoya, Waseda, KEK*

*SLAC, FNAL, LBNL, Cornell,*

*CERN, DESY, Q.M.U.L., R.H.U.L, Oxford, U.C.L,*

**ILC-Asia Collaboration:**  
**Arrangements at KEK in March, 2006**

*( For details, Ref. to M. Nozaki, GDE Plenary, Feb. 4)*

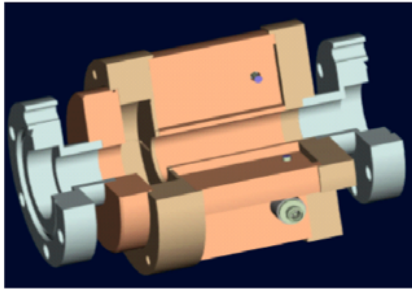
- (1) China: IHEP, Peking Univ.  
ATF2 magnets, DR design,  
SC Cavity, and others
  
- (2) Korea: PAL, CHEP  
ATF2 QBPM (11 sets in Mar. 2006, 28 sets in Mar. 2007)  
SC Cavity, DR and RTML design, and others

# ATF2 Cavity BPM under ILC-Asia & ATF-MoU (PAL)

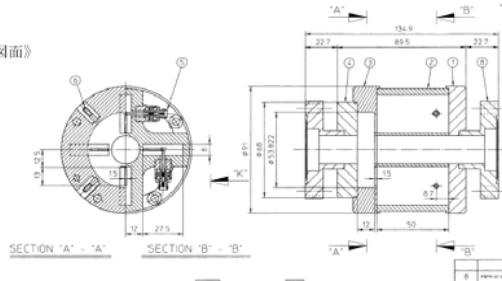
韓国 Pohang Accelerator Laboratory 製

ビームポジションモニター  
型式：PAL-BPM0001

《外観》




《図面》



仕様

dent 無し	<ul style="list-style-type: none"> <li>・ 内径 20mm、厚さ 12mm の真空空洞。</li> <li>・ 真空リーク量：<math>3 \times 10^{-10}</math> Pa · m<sup>3</sup>/秒以下</li> <li>・ ダイポール共鳴周波数：<math>f=6420 \pm 1</math> MHz(空气中)</li> <li>・ loaded-Q (= <math>f/\Delta f</math>)：QL &gt; 5000</li> <li>・ カップリング：<math>\beta &gt; 0.3</math></li> <li>・ x-y アイソレーション：-20dB 以下</li> </ul>
dent 有り	<ul style="list-style-type: none"> <li>・ 対向する 2 つのシグナルポート付近の空洞内に dent 構造。</li> <li>・ dent によるダイポール共鳴周波数の変化：-700KHz 程度</li> <li>・ その他：dent 無しと同様</li> </ul>

製造元 韓国 Pohang Accelerator Laboratory 製

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Catalog for the Prototype Cavity BPM



Photo of  
Prototype  
Cavity BPM



Photo of Production Cavity BPM  
with Beam Pipe

ACFA LC/GDE, Beijing, W. Namkung, Feb. 7, 2007

## Core University Program (CUP) in Accelerator Science

- (1) Before 2005: Bilateral Program

*Japan (JSPS)-China (CAS) and Japan (JSPS)-Korea (KOSEF)*

- (2) After 2005: Multi-lateral Program for 4 countries

*Man-power training, exchange, schools and Seminars on 4-Subjects*

*China (IHEP, C. Zhang)*

*India (RRCAT, S. Krishnagopal )*

*Japan (KEK, S. Kurokawa)*

*Korea (PAL, I. S. Ko)*

## Subcommittee on Strategy for Asian HEP

*JAHEP published “Prospects for Elementary Particle Physics” in October 2006. ACFA may need the same kind of the Asian strategy for accelerator science in Asian region.*

*C. Zhang (IHEP)*

*D. Son (CHEP)*

*M. Nozaki (KEK), Chair*

*Y. B. Hsiung (NTU, Taipei)*