



## Patricia Burchat

Gabilan Professor  
Physics

### CONTACT INFORMATION

- **Administrative Contact**

Sha Zhang

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### Bio

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#### BIO

Prof. Burchat grew up in a very large family in a very small town in Canada. She is passionate about teaching and instilling enthusiasm for science in her students. At Stanford, she has received the Dean's Award for Distinguished Teaching and the Walter J. Gores Award for excellence in teaching. She is a Fellow of the American Physical Society and the American Association for the Advancement of Science, and has received a Guggenheim Fellowship. She is past-Chair of the National Organizing Committee for the APS Conferences for Undergraduate Women in Physics.

Professor Burchat's research interests focus on fundamental questions in physics: What is the Universe made of? What are the laws of physics that govern the constituents of the Universe? She is interested in studying the Universe at both the smallest and the largest scales. She has used accelerators to probe the elementary particles and the fundamental interactions; her current focus is on using astronomical images to investigate the cosmological evolution of the Universe.

Prof. Burchat is a member of an international collaboration preparing for operation of Vera C. Rubin Observatory, a telescope project that will provide the most complete census of the Universe to date -- the Legacy Survey of Space & Time (LSST). Rubin Observatory is under construction in Chile and is scheduled to see "first light" around 2022. Prof. Burchat's group works within the LSST Dark Energy Science Collaboration (DESC) to prepare to fully optimize the use of the gravitational bending of light by "dark matter" to study the evolution of "dark energy". Burchat has served as Deputy Spokesperson of the DESC and currently serves as Technical Coordinator. In the past, she worked with colleagues at Stanford to measure the masses of giant clusters of galaxies using images from the Subaru Telescope in Hawaii.

Over her career, Burchat has been a key player in a number of accelerator-based particle physics experiments: Mark II at the SLAC Linear Collider, E791 at Fermilab, and BABAR at SLAC. Each of these experiments probed the fundamental interactions, especially the "weak" interaction. The research of Burchat's group in these experiments included pioneering studies of the neutral carrier of the weak interaction (the  $Z^0$ ), searches for heavy neutral leptons, precision studies of semileptonic decays of charm mesons, searches for and discovery of charm mixing, and detailed studies of differences in the way matter and antimatter evolve in time (CP violation in B meson decays).

A theme in Burchat's research has been understanding physical, instrumental, and statistical effects that impact precision measurements of fundamental physics so that the measurements are accurate as well as precise.

## **ACADEMIC APPOINTMENTS**

- Professor, Physics

## **ADMINISTRATIVE APPOINTMENTS**

- Full Professor, Department of Physics, Stanford University, (2000- present)
- Associate Professor, Department of Physics, Stanford University, (1995-2000)
- Associate Professor, Department of Physics, University of California, Santa Cruz, (1992-1994)
- Assistant Professor, Department of Physics, University of California, Santa Cruz, (1988-1992)

## **HONORS AND AWARDS**

- Engineering Alumni Hall of Distinction Award, University of Toronto (2020)
- AAAS Fellow, American Association for the Advancement of Science (2012)
- Judith Pool Award, Northern California Chapter of the Association for Women in Science (2010)
- Walter J. Gores Award, Stanford University (2007)
- Gabilan Professorship, Stanford University (2006)
- Guggenheim Fellow, John Simon Goggenheim Memorial Foundation (2005)
- Sapp Family University Fellow in UG Education, Stanford University (2004)
- APS Fellow, American Physical Society (2001)
- Dean's Award, Stanford University (1997)

## **BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS**

- Executive Committee Member-at-Large, American Physical Society Division of Astrophysics (2015 - 2017)
- Member, LSST Corp Executive Board (2012 - present)
- Member, LSST Dark Energy Science Collaboration (2012 - present)
- Chair, LSST Publications Board (2012 - 2015)
- Chair Line, National Organizing Committee for the APS Conferences for Undergraduate Women in Physics (2012 - 2015)
- Member, LSST Corp Institutional Board (2010 - present)
- Member of Committee on the Status of Women in Physics, American Physical Society (2010 - 2011)
- Member of Committee of Visitors, National Science Foundation (2009 - 2009)
- Member of High Energy Physics Advisory Panel (HEPAP), Department of Energy and National Science Foundation (2008 - 2009)
- Member of P5, Particle Physics Prioritization Panel (P5) - a subpanel of HEPAP (2003 - 2004)

## **PROFESSIONAL EDUCATION**

- B.S. Applied Sci. & Engineering, University of Toronto , Engineering Science (1981)
- Ph.D, Stanford University , Physics (1986)
- Postdoctoral Research Physicist, University of California, Santa Cruz , Santa Cruz Institute for Particle Physics (1988)

## Research & Scholarship

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### CURRENT RESEARCH AND SCHOLARLY INTERESTS

Professor Burchat's research interests focus on fundamental questions in physics: What is the Universe made of? What are the laws of physics that govern the constituents of the Universe? She is interested in studying the Universe at both the smallest and the largest scales. She has used accelerators to probe the elementary particles and the fundamental interactions; her current focus is on using telescopes to investigate the cosmological evolution of the Universe.

Prof. Burchat is a member of an international collaboration preparing for operation of Vera C. Rubin Observatory, which will provide the most complete census of the Universe to date -- the Legacy Survey of Space & Time (LSST). Rubin observatory hosts a 8.4-meter ground-based telescope with a 10-square-degree field of view that will survey the Universe with an unprecedented combination of breadth (coverage of the entire night-sky approximately every three nights) and depth (sensitivity to matter densities up to seven billion light-years away). The LSST camera is a 3.2 Gigapixel CCD array, which will be read out in approximately 2 seconds, every 15 seconds, generating tens of terabytes of data each night. The telescope is under construction on Cerro Pachon, an 8,800-foot mountain peak in northern Chile. The telescope is scheduled to see "first light" around 2022.

Prof. Burchat's group works within the LSST Dark Energy Science Collaboration (DESC) to prepare to fully optimize the use of the gravitational bending of light by "dark matter" to study the evolution of "dark energy" -- shedding light on the identity of these components that make up the majority of the energy density of the Universe. The group works on developing a deep understanding of effects that have the potential to limit our sensitivity to cosmology with LSST: from understanding and correcting for the impact of turbulence in the atmosphere on image quality, to challenges of image analysis at the high number density of galaxies in LSST images.

In the past, she worked with colleagues at Stanford to measure the masses of giant clusters of galaxies using images from the Subaru Telescope in Hawaii.

## Teaching

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### COURSES

#### 2022-23

- Mechanics and Special Relativity: PHYSICS 61 (Aut)
- Quantum Mechanics I: PHYSICS 130 (Win)

#### 2021-22

- Mechanics and Special Relativity: PHYSICS 61 (Aut)

#### 2020-21

- Mechanics and Special Relativity: PHYSICS 61 (Aut)

#### 2019-20

- Mechanics and Special Relativity: PHYSICS 61 (Aut)

### STANFORD ADVISEES

#### Doctoral Dissertation Reader (AC)

Drew Ames, George Halal, Nicole Hartman, Ares Hernandez

#### Postdoctoral Faculty Sponsor

Shuang Liang

#### Doctoral Dissertation Advisor (AC)

Claire-Alice Hébert, Sidney Mau

**Orals Evaluator**

Alexander Madurowicz

**Doctoral Dissertation Co-Advisor (AC)**

Kate Coppess

**Undergraduate Major Advisor**

Ann Marie Abraham

**Postdoctoral Research Mentor**

Shuang Liang

**Publications**

**PUBLICATIONS**

- **Effects of overlapping sources on cosmic shear estimation: Statistical sensitivity and pixel-noise bias** *JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS*  
Sanchez, J., Mendoza, I., Kirkby, D. P., Burchat, P. R., LSST Dark Energy Sci Coll  
2021
- **Shear Measurement Bias Due to Spatially Varying Spectral Energy Distributions in Galaxies** *ASTROPHYSICAL JOURNAL*  
Kamath, S., Meyers, J. E., Burchat, P. R., LSST Dark Energy Sci Collaboration  
2020; 888 (1)
- **LSST: From Science Drivers to Reference Design and Anticipated Data Products** *ASTROPHYSICAL JOURNAL*  
Ivezic, Z., Kahn, S. M., Tyson, J., Abel, B., Acosta, E., Allsman, R., Alonso, D., AlSayyad, Y., Anderson, S. F., Andrew, J., Angel, J. P., Angeli, G. Z., Ansari, et al  
2019; 873 (2)
- **Characterization of atmospheric turbulence for the Large Synoptic Survey Telescope**  
Hebert, C., Macintosh, B., Burchat, P. R., Marshall, H. K., Spyromilio, J.  
SPIE-INT SOC OPTICAL ENGINEERING.2018
- **Chromatic CCD effects on weak lensing measurements for LSST** *JOURNAL OF INSTRUMENTATION*  
Meyers, J. E., Burchat, P. R.  
2015; 10
- **Robust weak-lensing mass calibration of Planck galaxy clusters** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*  
von der Linden, A., Mantz, A., Allen, S. W., Applegate, D. E., Kelly, P. L., Morris, R. G., Wright, A., Allen, M. T., Burchat, P. R., Burke, D. L., Donovan, D., Ebeling, H.  
2014; 443 (3): 1973-1978
- **Study of the reaction  $e^{+}e^{-} \rightarrow \psi(2S)\pi^{+}\pi^{-}$  via initial-state radiation at BABAR** *PHYSICAL REVIEW D*  
Lees, J. P., Poireau, V., Tisserand, V., Tico, J. G., Grauges, E., Palano, A., Eigen, G., Stugu, B., Brown, D. N., Kerth, L. T., Kolomensky, Y. G., Lynch, G., Koch, et al  
2014; 89 (11)
- **Evidence for the baryonic decay  $(B)\overline{B}(0) \rightarrow D\overline{0}\Lambda(\Lambda)\overline{B}$**  *PHYSICAL REVIEW D*  
Lees, J. P., Poireau, V., Tisserand, V., Grauges, E., Palano, A., Eigen, G., Stugu, B., Brown, D. N., Kerth, L. T., Kolomensky, Y. G., Lee, M. J., Lynch, G., Koch, et al  
2014; 89 (11)
- **Weighing the Giants - II. Improved calibration of photometry from stellar colours and accurate photometric redshifts** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*  
Kelly, P. L., von der Linden, A., Applegate, D. E., Allen, M. T., Allen, S. W., Burchat, P. R., Burke, D. L., Ebeling, H., Capak, P., Czoske, O., Donovan, D., Mantz, A., Morris, et al  
2014; 439 (1): 28-47

- **Impact of chromatic effects on galaxy shape measurements** *JOURNAL OF INSTRUMENTATION*  
Meyers, J. E., Burchat, P. R.  
2014; 9
- **Weighing the Giants - III. Methods and measurements of accurate galaxy cluster weak-lensing masses** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*  
Applegate, D. E., von der Linden, A., Kelly, P. L., Allen, M. T., Allen, S. W., Burchat, P. R., Burke, D. L., Ebeling, H., Mantz, A., Morris, R. G.  
2014; 439 (1): 48-72
- **Weighing the Giants - I. Weak-lensing masses for 51 massive galaxy clusters: project overview, data analysis methods and cluster images** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*  
von der Linden, A., Allen, M. T., Applegate, D. E., Kelly, P. L., Allen, S. W., Ebeling, H., Burchat, P. R., Burke, D. L., Donovan, D., Morris, R. G., Blandford, R., Erben, T., Mantz, et al  
2014; 439 (1): 2-27
- **The BABAR detector: Upgrades, operation and performance** *NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT*  
Aubert, B., Barate, R., Boutigny, D., Couderc, F., Sanchez, P. d., Gaillard, J., Hicheur, A., Karyotakis, Y., Lees, J. P., Poireau, V., Prudent, X., Robbe, P., Tisserand, et al  
2013; 729: 615-701
- **Time-integrated luminosity recorded by the BABAR detector at the PEP-II  $e^+e^-$  collider** *NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT*  
Lees, J. P., Poireau, V., Tisserand, V., Grauges, E., Palano, A., Eigen, G., Stugu, B., Brown, D. N., Kerth, L., Kolomensky, Y. G., Lynch, G., Koch, H., Schroeder, et al  
2013; 726: 203-213
- **Measurement of the  $B^+ \rightarrow \omega l^+ \nu$  branching fraction with semileptonically tagged B mesons** *PHYSICAL REVIEW D*  
Lees, J. P., Poireau, V., Tisserand, V., Grauges, E., Palano, A., Eigen, G., Stugu, B., Brown, D. N., Kerth, L. T., Kolomensky, Y. G., Lee, M. J., Lynch, G., Koch, et al  
2013; 88 (7)
- **Search for a low-mass scalar Higgs boson decaying to a tau pair in single-photon decays of  $Y(1S)$**  *PHYSICAL REVIEW D*  
Lees, J. P., Poireau, V., Tisserand, V., Tico, J. G., Grauges, E., Palano, A., Eigen, G., Stugu, B., Brown, D. N., Georges, A., Kerth, L. T., Kolomensky, Y. G., Lynch, et al  
2013; 88 (7)
- **Measurement of the  $D^{*(2010)+}$  natural linewidth and the  $D^{*(2010)+}$ - $D^0$  mass difference** *PHYSICAL REVIEW D*  
Lees, J. P., Poireau, V., Tisserand, V., Grauges, E., Palano, A., Eigen, G., Stugu, B., Brown, D. N., Kerth, L. T., Kolomensky, Y. G., Lynch, G., Koch, H., Schroeder, et al  
2013; 88 (5)
- **Evidence of  $B^+ \rightarrow \tau^+ \nu$  decays with hadronic B tags** *PHYSICAL REVIEW D*  
Lees, J. P., Poireau, V., Tisserand, V., Garra Tico, J., Grauges, E., Palano, A., Eigen, G., Stugu, B., Brown, D. N., Kerth, L. T., Kolomensky, Y. G., Lynch, G., Koch, et al  
2013; 88 (3)
- **Measurement of CP-violating asymmetries in  $B^0 \rightarrow (\rho \pi)^0$  decays using a time-dependent Dalitz plot analysis** *PHYSICAL REVIEW D*  
Lees, J. P., Poireau, V., Tisserand, V., Grauges, E., Palano, A., Eigen, G., Stugu, B., Brown, D. N., Kerth, L. T., Kolomensky, Y. G., Lynch, G., Koch, H., Schroeder, et al  
2013; 88 (1)
- **Study of  $e^+e^- \rightarrow p\bar{p}$  via initial-state radiation at BABAR** *PHYSICAL REVIEW D*  
Lees, J. P., Poireau, V., Tisserand, V., Grauges, E., Palano, A., Eigen, G., Stugu, B., Brown, D. N., Kerth, L. T., Kolomensky, Y. G., Lynch, G., Koch, H., Schroeder, et al  
2013; 87 (9)
- **Study of the decay  $(B\bar{0}) \rightarrow \Lambda^+(c) (p\bar{p}) \pi^+ \pi^-$  and its intermediate states** *PHYSICAL REVIEW D*  
Lees, J. P., Poireau, V., Tisserand, V., Grauges, E., Palano, A., Eigen, G., Stugu, B., Brown, D. N., Kerth, L. T., Kolomensky, Y. G., Lynch, G., Koch, H., Schroeder, et al  
2013; 87 (9)

- **Observation of direct CP violation in the measurement of the Cabibbo-Kobayashi-Maskawa angle  $\gamma$  with  $B^{\pm} \rightarrow D d^{(*)} K^{(*)}$  decays** *PHYSICAL REVIEW D*  
Lees, J. P., Poireau, V., Tisserand, V., Grauges, E., Palano, A., Eigen, G., Stugu, B., Brown, D. N., Kerth, L. T., Kolomensky, Y. G., Lynch, G., Koch, H., Schroeder, et al  
2013; 87 (5)
- **Search for CP violation in the decays  $D^{\pm} \rightarrow (KSK^{\pm})-K-0$ ,  $D^{\pm} \rightarrow (KSK^{\pm})-K-0$ , and  $D^{\pm} \rightarrow K-S(0)\pi^{\pm}$**  *PHYSICAL REVIEW D*  
Lees, J. P., Poireau, V., Tisserand, V., Grauges, E., Palano, A., Eigen, G., Stugu, B., Brown, D. N., Kerth, L. T., Kolomensky, Y. G., Lynch, G., Koch, H., Schroeder, et al  
2013; 87 (5)
- **Search for direct CP violation in singly Cabibbo-suppressed  $D^{\pm} \rightarrow K+K\pi^{\pm}$  decays** *PHYSICAL REVIEW D*  
Lees, J. P., Poireau, V., Tisserand, V., Garra Tico, J., Grauges, E., Palano, A., Eigen, G., Stugu, B., Brown, D. N., Kerth, L. T., Kolomensky, Y. G., Lynch, G., Koch, et al  
2013; 87 (5)
- **Measurement of CP asymmetries and branching fractions in charmless two-body B-meson decays to pions and kaons** *PHYSICAL REVIEW D*  
Lees, J. P., Poireau, V., Tisserand, V., Garra Tico, J., Grauges, E., Palano, A., Eigen, G., Stugu, B., Brown, D. N., Kerth, T., Kolomensky, Y. G., Lynch, G., Koch, et al  
2013; 87 (5)
- **Search for di-muon decays of a low-mass Higgs boson in radiative decays of the  $\Gamma(1S)$**  *PHYSICAL REVIEW D*  
Lees, J. P., Poireau, V., Tisserand, V., Garra Tico, J., Grauges, E., Palano, A., Eigen, G., Stugu, B., Brown, D. N., Kerth, L. T., Kolomensky, Y. G., Lynch, G., Koch, et al  
2013; 87 (3)
- **Branching fraction measurement of  $B^+ \rightarrow \omega l^+ \nu$  decays** *PHYSICAL REVIEW D*  
Lees, J. P., Poireau, V., Tisserand, V., Tico, J. G., Grauges, E., Palano, A., Eigen, G., Stugu, B., Brown, D. N., Kerth, L. T., Kolomensky, Y. G., Lynch, G., Koch, et al  
2013; 87 (3)
- **Measurement of  $D-0-(D)\text{over-bar}(0)$  mixing and CP violation in two-body  $D-0$  decays** *PHYSICAL REVIEW D*  
Lees, J. P., Poireau, V., Tisserand, V., Garra Tico, J., Grauges, E., Palano, A., Eigen, G., Stugu, B., Brown, D. N., Kerth, L. T., Kolomensky, Y. G., Lynch, G., Koch, et al  
2013; 87 (1)
- **Measurement of B ( $B \rightarrow Xs \gamma$ ), the  $B \rightarrow Xs \gamma$  photon energy spectrum, and the direct CP asymmetry in  $B \rightarrow Xs+d \gamma$  decays** *PHYSICAL REVIEW D*  
Lees, J. P., Poireau, V., Tisserand, V., Garra Tico, J., Grauges, E., Palano, A., Eigen, G., Stugu, B., Brown, D. N., Kerth, L. T., Kolomensky, Y. G., Lynch, G., Koch, et al  
2012; 86 (11)
- **Measurement of the time-dependent CP asymmetry of partially reconstructed  $B-0 \rightarrow D^* D^{*}$  decays** *PHYSICAL REVIEW D*  
Lees, J. P., Poireau, V., Tisserand, V., Garra Tico, J., Grauges, E., Palano, A., Eigen, G., Stugu, B., Brown, D. N., Kerth, L. T., Kolomensky, Y. G., Lynch, G., Koch, et al  
2012; 86 (11)
- **Study of high-multiplicity three-prong and five-prong tau decays at BABAR** *PHYSICAL REVIEW D*  
Lees, J. P., Poireau, V., Tisserand, V., Tico, J. G., Grauges, E., Palano, A., Eigen, G., Stugu, B., Brown, D. N., Kerth, L. T., Kolomensky, Y. G., Lynch, G., Koch, et al  
2012; 86 (9)
- **Branching fraction of  $\tau^{\pm} \rightarrow \pi^{\pm}(-K_s K_s^0)-K-0(\pi^0)\nu(\tau)$  decays** *PHYSICAL REVIEW D*  
Lees, J. P., Poireau, V., Tisserand, V., Garra Tico, J., Grauges, E., Palano, A., Eigen, G., Stugu, B., Brown, D. N., Kerth, L. T., Kolomensky, Y. G., Lynch, G., Koch, et al  
2012; 86 (9)
- **Observation of Time-Reversal Violation in the B-0 Meson System** *PHYSICAL REVIEW LETTERS*  
Lees, J. P., Poireau, V., Tisserand, V., Garra Tico, J., Grauges, E., Palano, A., Eigen, G., Stugu, B., Brown, D. N., Kerth, L. T., Kolomensky, Y. G., Lynch, G., Koch, et al  
2012; 109 (21)

- **Study of the baryonic B decay  $B^- \rightarrow \Sigma^{++}(c) \bar{p} \pi^-(\pi^-)$**  *PHYSICAL REVIEW D*  
Lees, J. P., Poireau, V., Tisserand, V., Tico, J. G., Grauges, E., Palano, A., Eigen, G., Stugu, B., Brown, D. N., Kerth, L. T., Kolomensky, Y. G., Lynch, G., Koch, et al  
2012; 86 (9)
- **Precision Measurement of the  $B^- \rightarrow X_s \gamma$  Photon Energy Spectrum, Branching Fraction, and Direct CP Asymmetry  $ACP(B^- \rightarrow X_s + d \gamma)$**  *PHYSICAL REVIEW LETTERS*  
Lees, J. P., Poireau, V., Tisserand, V., Garra Tico, J., Grauges, E., Palano, A., Eigen, G., Stugu, B., Brown, D. N., Kerth, L. T., Kolomensky, Y. G., Lynch, G., Koch, et al  
2012; 109 (19)
- **Search for resonances decaying to  $\eta(c) \pi^+ \pi^-$  in two-photon interactions** *PHYSICAL REVIEW D*  
Lees, J. P., Poireau, V., Tisserand, V., Garra Tico, J., Grauges, E., Palano, A., Eigen, G., Stugu, B., Brown, D. N., Kerth, L. T., Kolomensky, Y. G., Lynch, G., Koch, et al  
2012; 86 (9)
- **Branching fraction and form-factor shape measurements of exclusive charmless semileptonic B decays, and determination of  $V_{ub}$**  *PHYSICAL REVIEW D*  
Lees, J. P., Poireau, V., Tisserand, V., Tico, J. G., Grauges, E., Palano, A., Eigen, G., Stugu, B., Brown, D. N., Kerth, L. T., Kolomensky, Y. G., Lynch, G., Koch, et al  
2012; 86 (9)
- **Study of  $X(3915) \rightarrow J/\psi \omega$  in two-photon collisions** *PHYSICAL REVIEW D*  
Lees, J. P., Poireau, V., Tisserand, V., Tico, J. G., Grauges, E., Palano, A., Eigen, G., Stugu, B., Brown, D. N., Kerth, L. T., Kolomensky, Y. G., Lynch, G., Koch, et al  
2012; 86 (7)
- **Improved limits on  $B \rightarrow 0$  decays to invisible (plus  $\gamma$ ) final states** *PHYSICAL REVIEW D*  
Lees, J. P., Poireau, V., Tisserand, V., Tico, J. G., Grauges, E., Palano, A., Eigen, G., Stugu, B., Brown, D. N., Kerth, L. T., Kolomensky, Y. G., Lynch, G., Koch, et al  
2012; 86 (5)
- **Exclusive measurements of  $b \rightarrow s \gamma$  transition rate and photon energy spectrum** *PHYSICAL REVIEW D*  
Lees, J. P., Poireau, V., Tisserand, V., Garra Tico, J., Grauges, E., Palano, A., Eigen, G., Stugu, B., Brown, D. N., Kerth, L. T., Kolomensky, Y. G., Lynch, G., Koch, et al  
2012; 86 (5)
- **Study of the reaction  $e^+e^- \rightarrow J/\psi \pi^+ \pi^-$  via initial-state radiation at BABAR** *PHYSICAL REVIEW D*  
Lees, J. P., Poireau, V., Tisserand, V., Garra Tico, J., Grauges, E., Palano, A., Eigen, G., Stugu, B., Brown, D. N., Kerth, L. T., Kolomensky, Y. G., Lynch, G., Koch, et al  
2012; 86 (5)
- **Evidence for an Excess of  $B \rightarrow D^{(*)} \tau \nu$  Decays** *PHYSICAL REVIEW LETTERS*  
Lees, J. P., Poireau, V., Tisserand, V., Garra Tico, J., Grauges, E., Palano, A., Eigen, G., Stugu, B., Brown, D. N., Kerth, L. T., Kolomensky, Y. G., Lynch, G., Koch, et al  
2012; 109 (10)
- **Precise measurement of the  $e^+e^- \rightarrow \pi^+ \pi^- (\gamma)$  cross section with the initial-state radiation method at BABAR** *PHYSICAL REVIEW D*  
Lees, J. P., Poireau, V., Tisserand, V., Garra Tico, J., Grauges, E., Palano, A., Eigen, G., Stugu, B., Brown, D. N., Kerth, L. T., Kolomensky, Y. G., Lynch, G., Koch, et al  
2012; 86 (3)
- **Measurement of branching fractions and rate asymmetries in the rare decays  $B \rightarrow K^{(*)} l^+ l^-$**  *PHYSICAL REVIEW D*  
Lees, J. P., Poireau, V., Tisserand, V., Garra Tico, J., Grauges, E., Palano, A., Eigen, G., Stugu, B., Brown, D. N., Kerth, L. T., Kolomensky, Y. G., Lynch, G., Koch, et al  
2012; 86 (3)
- **Study of  $B \rightarrow X(u) l \nu$  decays in  $B(B)$  events tagged by a fully reconstructed B-meson decay and determination of  $V_{ub}$**  *PHYSICAL REVIEW D*  
Lees, J. P., Poireau, V., Tisserand, V., Tico, J. G., Grauges, E., Martinelli, M., Milanes, D. A., Palano, A., Pappagallo, M., Eigen, G., Stugu, B., Brown, D. N., Kerth, et al

2012; 86 (3)

- **Search for the decay modes  $D^0 \rightarrow e^+ e^-$ ,  $D^0 \rightarrow \mu^+ \mu^-$ , and  $D^0 \rightarrow e^+ \mu^-$**  *PHYSICAL REVIEW D*  
Lees, J. P., Poireau, V., Tisserand, V., Garra Tico, J., Grauges, E., Palano, A., Eigen, G., Stugu, B., Brown, D. N., Kerth, L. T., Kolomensky, Y. G., Lynch, G., Koch, et al  
2012; 86 (3)
- **Cross sections for the reactions  $e^+e^- \rightarrow K^+K^- \pi^0$ ,  $K^+K^- \pi^0 \pi^0$ , and  $K^+K^-K^+K^-$  measured using initial-state radiation events** *PHYSICAL REVIEW D*  
Lees, J. P., Poireau, V., Prencipe, E., Tisserand, V., Garra Tico, J., Grauges, E., Martinelli, M., Milanes, D. A., Palano, A., Pappagallo, M., Eigen, G., Stugu, B., Sun, et al  
2012; 86 (1)
- **Study of CP violation in Dalitz-plot analyses of  $B^0 \rightarrow K^+ (K^- K_S^0)$ ,  $B^+ \rightarrow K^+ K^- K^+$ , and  $B^+ \rightarrow (K_S^0 K_S^0) K^- K^0$**  *PHYSICAL REVIEW D*  
Lees, J. P., Poireau, V., Tisserand, V., Garra Tico, J., Grauges, E., Milanes, D. A., Palano, A., Pappagallo, M., Eigen, G., Stugu, B., Brown, D. N., Kerth, L. T., Kolomensky, et al  
2012; 85 (11)
- **Observation and study of the baryonic B-meson decays  $B \rightarrow D^{(*)} p(\bar{p}) \pi^0$**  *PHYSICAL REVIEW D*  
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