

INFORMAȚII PERSONALE

Lucian Nicolae Cojocariu



 Ciocârliei 6B, 077125, Măgurele, Ilfov (România)



 Skype

Sexul Masculin | Data nașterii 06/12/1986 | Naționalitatea română

EXPERIENȚA PROFESIONALĂ

2018-prezent

Inginer Dezvoltare Tehnologică (IDT)

Institutul Național de Cercetare-Dezvoltare pentru Fizică și Inginerie Nucleară Horia Hulubei
Reactorului 30, 077125, București-Măgurele, Ilfov (România).
<http://www.nipne.ro/dpp/Collab/LHCb/>

Proiectarea și implementarea de circuite electronice cu aplicabilitate în experimente de fizica energiilor înalte, contribuții la Programul RICH-LHCb detector Upgrade.

Tipul sau sectorul de activitate Cercetare-Dezvoltare

2017-2018

Asistent Post-Doctoral de Cercetare Științifică

Institutul Național de Cercetare-Dezvoltare pentru Fizică și Inginerie Nucleară Horia Hulubei
Reactorului 30, 077125, București-Măgurele, Ilfov (România).
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Proiectarea și implementarea de circuite electronice cu aplicabilitate în experimente de fizica energiilor înalte, contribuții la Programul RICH-LHCb detector Upgrade.

Tipul sau sectorul de activitate Cercetare-Dezvoltare

2013–2017

Asistent Cercetare Științifică

Institutul Național de Cercetare-Dezvoltare pentru Fizică și Inginerie Nucleară Horia Hulubei
Reactorului 30, 077125, București-Măgurele, Ilfov (România).
<http://www.nipne.ro/dpp/Collab/LHCb/>

Proiectarea și implementarea de standuri experimentale pentru evaluarea toleranței la radiații ionizante a dispozitivelor semiconductoare destinate experimentelor din fizica energiilor înalte.

Tipul sau sectorul de activitate Cercetare-Dezvoltare

2008–2013

Asistent Cercetare

Laboratorul de cercetare al sistemelor cu histerezis
Facultatea de Inginerie Electrică și Știința Calculatoarelor
Universitatea „Ștefan cel Mare” Suceava
Universității 13, 720229 Suceava (România)
<http://www.eed.usv.ro/fiesc/>

Proiectarea și realizare cablajelor imprimate. Proiectarea și implementarea sistemelor de comunicații ce utilizează unde electromagnetice din spectrul vizibil (VLC Systems). Studiul sistemelor și aplicațiilor de telemedicină. Studiul sistemelor și aplicațiilor bazate pe RFID.

Tipul sau sectorul de activitate Cercetare-Dezvoltare

EDUCAȚIE ȘI FORMARE

- 2012–2017 **Diplomă de doctor în domeniul Inginerie Electronică și Telecomunicații**
Facultatea de Inginerie Electrică și Știința Calculatoarelor
Universitatea „Ștefan cel Mare” Suceava
Universității 13, 720229 Suceava (România)
<http://www.eed.usv.ro/fiesc/>
Contributions to testing and characterization of electronic devices with applications in Large Hadron Collider (LHC) experiments.
- 2012–2014 **Certificat de absolvire al programului de formare psihopedagogică -nivel I și II**
Facultatea de Științe ale Educației
Universitatea „Ștefan cel Mare” Suceava
Universității 13, 720229 Suceava (România)
<http://fsed.usv.ro/>
Discipline studiate: Managementul organizației școlare; Psihopedagogia adolescenților, tinerilor și adulților; Comunicare Educațională; Proiectare și managementul proiectelor educaționale; Practică pedagogică; Psihologia educației, Fundamentele pedagogiei, Teoria și metodologia curriculumului, Teoria și metodologia instruirii, Didactica specialității, Instruire asistată de calculator.
- 2010–2013 **Diplomă de master**
Facultatea de Inginerie Electrică și Știința Calculatoarelor
Universitatea „Ștefan cel Mare” Suceava
Universității 13, 720229 Suceava (România)
<http://www.eed.usv.ro/fiesc/>
Fundamentele calculatoarelor și rețelelor de comunicație, Sisteme fără fir pentru comunicații, Analiza și managementul datelor
- 2007–2011 **Inginer în domeniul Inginerie și Management**
Facultatea de Inginerie Electrică și Știința Calculatoarelor
Universitatea „Ștefan cel Mare” Suceava
Universității 13, 720229 Suceava (România)
www.eed.usv.ro/fiesc/
Discipline Generale:
- Fizică, Engleză, Analiză matematică, Matematici speciale;
Discipline Tehnice:
- Fiabilitate, Piața de energie, Măsurări electrice senzori și traductoare, Bazele electrotehnicii, Teoria materialelor electrotehnice, Producerea transportul și distribuția energiei electrice, Conversoare statice;
Discipline Economice:
- Bazele economiei, Statistică, Contabilitate, Marketing, Management.
- 2006–2010 **Inginer în domeniul Electronică și Telecomunicații**
Facultatea de Inginerie Electrică și Știința Calculatoarelor
Universitatea „Ștefan cel Mare” Suceava
Universității 13, 720229 Suceava (România)
<http://www.eed.usv.ro/fiesc/>
Discipline Generale:
- Fizică, Engleză, Analiză matematică, Matematici speciale;
Discipline Tehnice:
- Dispozitive și circuite electronice, Analiza și sinteza circuitelor, Circuite integrate digitale, Circuite integrate analogice, Măsurări electrice senzori și traductoare, Optoelectronică, Microunde, Domotică, Microcontrolere, Televiziune, Rețele de calculatoare.

2002–2006 **Diplomă Bacalaureat**

Colegiul tehnic „Alexandru Ioan Cuza”
Calea Unirii 47, Suceava (România)
www.ctalicuza.ro

Discipline Generale:

- *Matematică, Fizică, Franceză, Geografie, Istorie;*

Discipline Tehnice:

- *Electronică analogică, Electronică digitală, Măsurări electrice și electronice, Desen tehnic.*

Stagii de pregătire practică și teoretică

09/2012 **Stagiu practic**

Laboratoire d'Ingénierie des Systèmes de Versailles din Universitatea Versailles
Velizy, 78140 Versailles (Franța)
www.lisv.uvsg.fr/

Contribuții practice la implementarea receptorului unui sistem de comunicații unidirecțional ce utiliza unde electromagnetice din spectrul vizibil (VLC) utilizat ca parte integrată a infrastructurii de transport inteligente (ITS).

07/2011–09/2011 **CERN Summer Student Programme**

European Organization for Nuclear Research (CERN), Geneva (Elveția)
<http://home.cern/>

Automatizarea procesului de caracterizare a unui circuit integrat ce îngloba diferite tipuri constructive de tranzistoare. După expunerea la diferite doze de radiații X, parametrii electrice ale tranzistoarelor din cip au fost monitorizați.

02/2009–06/2009 **Certificat de Mobilitate Europas**

Universitatea Katholieke Sint-Lievent Gent
Gebroeders De Smetstraat 1, 9000 Gent (Belgia)
www.kuleuven.be/english

Studiul și aplicațiile sistemelor RFID ce funcționează la joasă frecvență.

COMPETENȚE PERSONALE

Limba maternă română

Alte limbi străine cunoscute

	ÎNȚELEGERE		VORBIRE		SCRIERE
	Ascultare	Citire	Participare la conversație	Discurs oral	
engleză	C1	C1	B2	B2	B1
franceză	B1	B2	A1	A1	A2

Niveluri: A1 și A2: Utilizator elementar - B1 și B2: Utilizator independent - C1 și C2: Utilizator experimentat
Cadrul european comun de referință pentru limbi străine

Competențe de comunicare

Capacitatea de a expune în mod logic datele unei probleme și a soluțiilor . Aptitudinea de a elabora diagrame sau alte elemente grafice ajutătoare pentru a-l face pe alții să înțeleagă tema abordată. Predispoziția de a iniția și susține conversații pe subiecte interdisciplinare.

Competențe organizaționale/manageriale

Experiență în gestionarea activităților pe etape de desfășurare. Atenție la detaliile legate de modul în care se derulează un proiect de cercetare-dezvoltare. Bune calități organizatorice dobândite pe baza implicării în organizarea de concursuri de electronică la nivel județean, respectiv în urma participării la numeroase activități de cercetare ce au avut loc în laboratoare din țară și străinătate.

Competențe dobândite la locul de muncă

Spirit de echipă, cât și competițional dobândit ca urmare a implicării în activități de cercetare desfășurate în laboratoare de cercetare din țară și străinătate. Capacitatea de a duce o muncă susținută în vederea realizării la termen a obiectivelor proiectului în care sunt implicat.

Competență digitală

AUTOEVALUARE				
Procesarea informației	Comunicare	Creare de conținut	Securitate	Rezolvarea de probleme
Utilizator experimentat	Utilizator experimentat	Utilizator experimentat	Utilizator experimentat	Utilizator experimentat

Competențele digitale - Grilă de auto-evaluare

Permis de conducere

B

Anexe

Listă publicații

Data
10.10.2018

Semnătura

Listă publicații

A) Listă de lucrări ca autor independent de colaborare

- [1] L. N. Cojocariu, V. M. Placinta, "Ion beam irradiation effects in KINTEX-7 FPGA resources", *Romanian Journal of Physics (RJP)*, accepted for publication in May 2018. Available [online](https://www.nipne.ro/rjp/accpaps/Cojocariu_3DBADE.pdf) (last accessed May 23, 2018): https://www.nipne.ro/rjp/accpaps/Cojocariu_3DBADE.pdf
- [2] V. M. Placinta, L. N. Cojocariu, "Radiation Hardness Studies and Evaluation of SRAM-Based FPGAs for High Energy Physics Experiments", *PoS TWEPP-17*, Santa Cruz, USA, 2018.
- [3] V. M. Placinta, L. N. Cojocariu, and C. Ravariu, "Test bench design for radiation tolerance of two ASIC's", *Romanian Journal of Physics (RJP)*, 62, 903, 2017.
- [4] V. M. Placinta, L. N. Cojocariu, and C. Ravariu, "Evaluating the Switching Mode Power Supplies used in Radiation Hardness Tests of Integrated Circuits", *International Semiconductor Conference (CAS)*, Sinaia, Romania, 2017.
- [5] M. K. Baszczyk,, L. Cojocariu, et al., "Test of the photon detection system for the LHCb RICH Upgrade in a charged particle beam", *Journal of Instrumentation*, vol. 12, pp. P01012-P01012, 2017.
- [6] L. N. Cojocariu, V. M. Placinta, and L. Dumitru, "Monitoring System for Testing the Radiation Hardness of a KINTEX-7 FPGA", *9th International Physics Conference of the Balkan Physical Union (Bpu-9)*, vol. 1722, p. 140009, 2016.
- [7] M. Preliceanu, L. Cojocariu, A. Graur, and S. Schrader, "Analysis of thermally stimulated processes in new phenanthroline derivatives suitable for optoelectronic devices", *Journal of Physics: Conference Series*, vol. 585, p. 012011, 2015.
- [8] M. Preliceanu, L. N. Cojocariu, and A. Graur, "Surface investigations of vacuum Teflon thin films deposited on different materials suitable for medical applications and optoelectronics", *IEEE Xplore, E-Health and Bioengineering Conference (EHB)*, pp. 1-4, 2013.
- [9] L. N. Cojocariu, M. Dimian, and M. Preliceanu, "Developing a wireless electrocardiography device for mobile and at-home healthcare applications", *IEEE Xplore, E-Health and Bioengineering Conference (EHB)*, pp. 1-4, 2013.
- [10] M. Dimian, L. N. Cojocariu, and M. F. Ursuleanu, "Developing Mobile Studio Laboratories for electronics disciplines in technical educational programs", *13th International Conference on Optimization of Electrical and Electronic Equipment (OPTIM)* pp. 1307-1313, 2012.
- [11] L. N. Cojocariu, O. Manu, "Design and development of a RFID reader with carrier frequency of 125 KHz", *DOCT-US*, vol. 3, 2011.

B) Listă de lucrări ca și membru al Colaborării LHCb

- [12] R. Aaij,, L. Cojocariu, *LHCb Collaboration*, "First observation of forward $Z \rightarrow b(b)\overline{b}$ production in pp collisions at root s=8 TeV", *Physics Letters B*, Article vol. 776, pp. 430-439, Jan 2018.
- [13] R. Aaij,, L. Cojocariu, *LHCb Collaboration*, "First observation of $B^+ \rightarrow D-s(+)$ $K^+ K^-$ decays and a search for $B^+ \rightarrow D-s(+)$ ϕ decays", *Journal of High Energy Physics*, Article no. 1, p. 22, Jan 2018, Art. no. 131.
- [14] R. Aaij,, L. Cojocariu, *LHCb Collaboration*, "Search for excited $B-c(+)$ states", *Journal of High Energy Physics*, Article no. 1, p. 18, Jan 2018, Art. no. 138.
- [15] R. Aaij,, L. Cojocariu, *LHCb Collaboration*, "Search for Dark Photons Produced in 13 TeV pp Collisions", *Physical Review Letters*, Article vol. 120, no. 6, p. 11, Feb 2018, Art. no. 061801.
- [16] R. Aaij,, L. Cojocariu, *LHCb Collaboration*, "Measurement of CP observables in $B^{-+} \rightarrow D^{*}K^{-+}$ and $B^{-+} \rightarrow D^{*}(\pi^{+/-})$ decays", *Physics Letters B*, Article vol. 777, pp. 16-30, Feb 2018.
- [17] R. Aaij,, L. Cojocariu, *LHCb Collaboration*, "Search for weakly decaying b-flavored pentaquarks", *Physical Review D*, Article vol. 97, no. 3, p. 11, Feb 2018, Art. no. 032010.
- [18] R. Aaij,, L. Cojocariu, *LHCb Collaboration*, "Measurement of branching fractions of charmless four-body $\Lambda_b(0)$ and $\Xi_b(0)$ decays", *Journal of High Energy Physics*, Article no. 2, p. 25, Feb 2018, Art. no. 098.
- [19] R. Aaij,, L. Cojocariu, *LHCb Collaboration*, "Updated determination of $D-0-(D)\overline{b}$ mixing and CP violation parameters with $D-0 \rightarrow K^+ \pi^{-}$ decays", *Physical Review D*, Article vol. 97, no. 3, p. 11, Feb 2018, Art. no. 031101.
- [20] R. Aaij,, L. Cojocariu, *LHCb Collaboration*, "Measurements of the branching fractions of $\Lambda_b(+)(c) \rightarrow p \pi^{-} \pi^{+}$, $\Lambda_b(+)(c) \rightarrow p K^{-} K^{+}$, and $\Lambda_b(+)(c) \rightarrow p \pi K^{-+}$ ", *Journal of High Energy Physics*, Article no. 3, p. 23, Mar 2018, Art. no. 043.
- [21] R. Aaij,, L. Cojocariu, *LHCb Collaboration*, "Measurement of CP asymmetry in $B-s(0) \rightarrow (D_s K^{+/-})K^{-/+}$ decays", *Journal of High Energy Physics*, Article no. 3, p. 28, Mar 2018, Art. no. 059.
- [22] R. Aaij,, L. Cojocariu, *LHCb Collaboration*, "Search for the lepton-flavour violating decays $B-s(0) \rightarrow e^{+/-} \mu^{-/+}$ ", *Journal of High Energy Physics*, Article no. 3, p. 20, Mar 2018, Art. no. 078.
- [23] R. Aaij,, L. Cojocariu, *LHCb Collaboration*, "Measurement of the Ratio of Branching Fractions $B(B-c(+)) \rightarrow J/\psi \tau^{+} \nu(\tau) / B(B-c(+)) \rightarrow J/\psi \mu^{+} \nu(\mu)$ ", *Physical Review Letters*, Article vol. 120, no. 12, p. 10, Mar 2018, Art. no. 121801.
- [24] R. Aaij,, L. Cojocariu, *LHCb Collaboration*, "First measurement of the CP-violating phase $\phi_i(\text{dd})(s)$ in $B-s(0) \rightarrow (K^+ \pi^{-})(K^0 \pi^{+})$ decays", *Journal of High Energy Physics*, Article no. 3, p. 32, Mar 2018, Art. no. 140.
- [25] R. Aaij,, L. Cojocariu, *LHCb Collaboration*, "Measurements of prompt charm production cross-sections in pp collisions at root s = 13 TeV (vol 03, 159, 2016)", *Journal of High Energy Physics*, Correction no. 5, p. 29, May 2017, Art. no. 074.
- [26] R. Aaij,, L. Cojocariu, *LHCb Collaboration*, "New algorithms for identifying the flavour of B-0 mesons using pions and protons", *European Physical Journal C*, Article vol. 77, no. 4, p. 15, Apr 2017, Art. no. 238.
- [27] R. Aaij,, L. Cojocariu, *LHCb Collaboration*, "Observation of the decay $B-s(0) \rightarrow \eta(c) \phi$ and evidence for $B-s(0) \rightarrow \eta(c) \pi^{+} \pi^{-}$ ", *Journal of*

- High Energy Physics, Article no. 7, p. 33, Jul 2017, Art. no. 021.
- [28] R. Aaij, **L. Cojocariu**, *LHCb Collaboration*, "Measurement of CP asymmetry in $D^0 \rightarrow K^- K^+$ decays", *Physics Letters B*, Article vol. 767, pp. 177-187, Apr 2017.
- [29] R. Aaij, **L. Cojocariu**, *LHCb Collaboration*, "Measurement of forward $t\bar{t}$, $W + b\bar{b}$ and $W + c\bar{c}$ production in pp collisions at $\sqrt{s}=8$ TeV", *Physics Letters B*, Article vol. 767, pp. 110-120, Apr 2017.
- [30] R. Aaij, **L. Cojocariu**, *LHCb Collaboration*, "Measurement of CP asymmetries in $D^{\pm} \rightarrow \eta' \pi^{\pm}$ and $D^{\pm} \rightarrow \eta \pi^{\pm}$ decays", *Physics Letters B*, Article vol. 771, pp. 21-30, Aug 2017.
- [31] R. Aaij, **L. Cojocariu**, *LHCb Collaboration*, "Observation of the $\Xi^0(b) \rightarrow J/\psi \Lambda^0 K^-$ decay", *Physics Letters B*, Article vol. 772, pp. 265-273, Sep 2017.
- [32] R. Aaij, **L. Cojocariu**, *LHCb Collaboration*, "Evidence for the two-body charmless baryonic decay $B^+ \rightarrow p \Lambda^0 \bar{b}$ ", *Journal of High Energy Physics*, Article no. 4, p. 18, Apr 2017, Art. no. 162.
- [33] R. Aaij, **L. Cojocariu**, *LHCb Collaboration*, "Amplitude analysis of $B^+ \rightarrow J/\psi \phi K^+$ decays", *Physical Review D*, Article vol. 95, no. 1, p. 28, Jan 2017, Art. no. 012002.
- [34] R. Aaij, **L. Cojocariu**, *LHCb Collaboration*, "Observation of $J/\psi \phi$ Structures Consistent with Exotic States from Amplitude Analysis of $B^+ \rightarrow J/\psi \phi K^+$ Decays", *Physical Review Letters*, Article vol. 118, no. 2, p. 10, Jan 2017, Art. no. 022003.
- [35] R. Aaij, **L. Cojocariu**, *LHCb Collaboration*, "Search for the suppressed decays $B^+ \rightarrow K^+ K^+ \pi^-$ and $B^+ \rightarrow \pi^+ \pi^+ K^-$ ", *Physics Letters B*, Article vol. 765, pp. 307-316, Feb 2017.
- [36] R. Aaij, **L. Cojocariu**, *LHCb Collaboration*, "Measurements of the S-wave fraction in $B^0 \rightarrow K^+ \pi^- \mu^+ \mu^-$ decays and the $B^0 \rightarrow K^*(892) \mu^+ \mu^-$ differential branching fraction (vol 11, 047, 2016)", *Journal of High Energy Physics*, Correction no. 4, p. 8, Apr 2017, Art. no. 142.
- [37] R. Aaij, **L. Cojocariu**, *LHCb Collaboration*, "Observation of $\eta(c) 2S \rightarrow p \bar{p}$ and search for $X(3872) \rightarrow p \bar{p}$ decays", *Physics Letters B*, Article vol. 769, pp. 305-313, Jun 2017.
- [38] R. Aaij, **L. Cojocariu**, *LHCb Collaboration*, "First Experimental Study of Photon Polarization in Radiative $B_s(0)$ Decays", *Physical Review Letters*, Article vol. 118, no. 2, p. 9, Jan 2017, Art. no. 021801.
- [39] R. Aaij, **L. Cojocariu**, *LHCb Collaboration*, "Observation of the decay $B_s(0) \rightarrow \phi \pi^+ \pi^-$ and evidence for $B^0 \rightarrow \phi \pi^+ \pi^-$ ", *Physical Review D*, Article vol. 95, no. 1, p. 15, Jan 2017, Art. no. 012006.
- [40] R. Aaij, **L. Cojocariu**, *LHCb Collaboration*, "Measurement of the b-Quark Production Cross Section in 7 and 13 TeV pp Collisions", *Physical Review Letters*, Article vol. 118, no. 5, p. 11, Feb 2017, Art. no. 052002.
- [41] R. Aaij, **L. Cojocariu**, *LHCb Collaboration*, "Observation of the Decay $\Xi^0(b) \rightarrow p K^- K^-$ ", *Physical Review Letters*, Article vol. 118, no. 7, p. 11, Feb 2017, Art. no. 071801.
- [42] R. Aaij, **L. Cojocariu**, *LHCb Collaboration*, "Observation of the Annihilation Decay Mode $B^0 \rightarrow K^+ K^-$ ", *Physical Review Letters*, Article vol. 118, no. 8, p. 9, Feb 2017, Art. no. 081801.
- [43] R. Aaij, **L. Cojocariu**, *LHCb Collaboration*, "Observation of $B_c^+ \rightarrow J/\psi D^{*+} K^-$ decays", *Physical Review D*, Article vol. 95, no. 3, p. 12, Feb 2017, Art. no. 032005.
- [44] R. Aaij, **L. Cojocariu**, *LHCb Collaboration*, "Observation of $B_c^+ \rightarrow (DK^+) K^-$ Decays", *Physical Review Letters*, Article vol. 118, no. 11, p. 9, Mar 2017, Art. no. 111803.
- [45] R. Aaij, **L. Cojocariu**, *LHCb Collaboration*, "Measurement of the B^{\pm} production asymmetry and the CP asymmetry in $B^{\pm} \rightarrow J/\psi K^{\pm}$ decays", *Physical Review D*, Article vol. 95, no. 5, p. 13, Mar 2017, Art. no. 052005.
- [46] R. Aaij, **L. Cojocariu**, *LHCb Collaboration*, "Measurements of charm mixing and CP violation using $D^0 \rightarrow K^+ \pi^- \pi^+$ decays", *Physical Review D*, Article vol. 95, no. 5, p. 14, Mar 2017, Art. no. 052004.
- [47] R. Aaij, **L. Cojocariu**, *LHCb Collaboration*, "Measurement of matter-antimatter differences in beauty baryon decays", *Nature Physics*, Article vol. 13, no. 4, pp. 391-+, Apr 2017.
- [48] R. Aaij, **L. Cojocariu**, *LHCb Collaboration*, "Observation of the suppressed decay $\Lambda^0(b) \rightarrow p \pi^- \mu^+ \mu^-$ ", *Journal of High Energy Physics*, Article no. 4, p. 16, Apr 2017, Art. no. 029.
- [49] R. Aaij, **L. Cojocariu**, *LHCb Collaboration*, "Search for massive long-lived particles decaying semileptonically in the LHCb detector", *European Physical Journal C*, Article vol. 77, no. 4, p. 16, Apr 2017, Art. no. 224.
- [50] R. Aaij, **L. Cojocariu**, *LHCb Collaboration*, "Search for long-lived scalar particles in $B^+ \rightarrow K^+ \chi(\mu^+ \mu^-)$ decays", *Physical Review D*, Article vol. 95, no. 7, p. 9, Apr 2017, Art. no. 071101.
- [51] R. Aaij, **L. Cojocariu**, *LHCb Collaboration*, "Observation of Five New Narrow $\Omega(c)$ States Decaying to $\Xi^- K^+(c)$ ", *Physical Review Letters*, Article vol. 118, no. 18, p. 10, May 2017, Art. no. 182001.
- [52] R. Aaij, **L. Cojocariu**, *LHCb Collaboration*, "Study of the $D(0)p$ amplitude in $\Lambda^0(b) \rightarrow D(0) \pi^-$ decays", *Journal of High Energy Physics*, Article no. 5, p. 43, May 2017, Art. no. 030.
- [53] R. Aaij, **L. Cojocariu**, *LHCb Collaboration*, "Study of J/ψ Production in Jets", *Physical Review Letters*, Article vol. 118, no. 19, p. 11, May 2017, Art. no. 192001.
- [54] R. Aaij, **L. Cojocariu**, *LHCb Collaboration*, "Measurement of the $B_s(0) \rightarrow \mu^+ \mu^-$ Branching Fraction and Effective Lifetime and Search for $B^0 \rightarrow \mu^+ \mu^-$ Decays", *Physical Review Letters*, Article vol. 118, no. 19, p. 11, May 2017, Art. no. 191801.
- [55] R. Aaij, **L. Cojocariu**, *LHCb Collaboration*, "Search for the $B_s(0) \rightarrow \eta' \phi$ decay", *Journal of High Energy Physics*, Article no. 5, p. 18, May 2017, Art. no. 158.
- [56] R. Aaij, **L. Cojocariu**, *LHCb Collaboration*, "Measurement of the J/ψ pair production cross-section in pp collisions at $\sqrt{s}=13$ TeV", *Journal of High Energy Physics*, Article no. 6, p. 38, Jun 2017, Art. no. 047.
- [57] R. Aaij, **L. Cojocariu**, *LHCb Collaboration*, "Search for CP violation in the phase space of $D^0 \rightarrow \pi^+ \pi^- \pi^+ \pi^-$ decays", *Physics Letters B*, Article vol. 769, pp. 345-356, Jun 2017.
- [58] R. Aaij, **L. Cojocariu**, *LHCb Collaboration*, "Search for the Decays $B_S(0) \rightarrow \tau^+ \tau^-$ and $B^0 \rightarrow \tau^+ \tau^-$ ", *Physical Review Letters*, Article vol. 118, no. 25, p. 10, Jun 2017, Art. no. 251802.
- [59] R. Aaij, **L. Cojocariu**, *LHCb Collaboration*, "Observation of the decay $\Lambda^0(b) \rightarrow p K^- \mu^+ \mu^-$ and a search for CP violation", *Journal of High Energy Physics*, Article no. 6, p. 17, Jun 2017, Art. no. 108.
- [60] R. Aaij, **L. Cojocariu**, *LHCb Collaboration*, "Measurement of the CP Violation Parameter $A(\Gamma)$ in $D^0 \rightarrow K^+ K^-$ and $D^0 \rightarrow \pi^+ \pi^-$ Decays", *Physical Review Letters*, Article vol. 118, no. 26, p. 9, Jun 2017, Art. no. 261803.
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