

The fourteenth data release of the sloan digital sky survey: First spectroscopic data from the extended baryon oscillation spectroscopic survey and from the second phase of the apache point observatory galactic evolution experiment

Abolfathi B.

Aguado D.S.

Aguilar G.

Prieto C.A.

Almeida A.

Ananna T.T.

Anders F.

Anderson S.F.

Andrews B.H.

Anguiano B.

Aragón-Salamanca A.

Argudo-Fernández M.

Armengaud E.

Ata M.

Aubourg E.

Avila-Reese V.

Badenes C.

Bailey S.

Balland C.

Barger K.A.

Barrera-Ballesteros J.

Bartosz C.

Bastien F.

Bates D.

Baumgarten F.

Bautista J.

Beaton R.

Beers T.C.

Belfiore F.

Bender C.F.

Bernardi M.

Bershady M.A.

Beutler F.

Bird J.C.

Bizyaev D.

Blanc G.A.

Blanton M.R.

Blomqvist M.

Bolton A.S.

Boquien M.

Borissova J.

Bovy J.

Bradna Diaz C.A.

Nielsen Brandt W.

Brinkmann J.

Brownstein J.R.

Bundy K.

Burgasser A.J.

Burtin E.

Busca N.G.

Canās C.I.

Cano-Díaz M.

Cappellari M.

Carrera R.

Casey A.R.

Sodi B.C.

Chen Y.

Cherinka B.

Chiappini C.

Choi P.D.

Chojnowski D.

Chuang C.-H.

Chung H.

Clerc N.

Cohen R.E.

Comerford J.M.

Comparat J.

Do Nascimento J.C.

Da Costa L.

Cousinou M.-C.

Covey K.

Crane J.D.

Cruz-Gonzalez I.

Cunha K.

Ilha G.D.S.

Damke G.J.

Darling J.

Davidson J.W.

Dawson K.

De Icaza Lizaola M.A.C.

MacOrra A.D.L.

De La Torre S.

De Lee N.

Sainte Agathe V.D.

Deconto MacHado A.

Dell'Agli F.

Delubac T.

Diamond-Stanic A.M.

Donor J.

Downes J.J.

Drory N.

Mas Des Bourbonx H.D.

Duckworth C.J.

Dwelly T.

Dyer J.

Ebelke G.

Eigenbrot A.D.

Eisenstein D.J.

Elsworth Y.P.

Emsellem E.

Eracleous M.

Erfanianfar G.

Escoffier S.

Fan X.

Alvar E.F.

Fernandez-Trincado J.G.

Cirolini R.F.

Feuillet D.

Finoguenov A.

Fleming S.W.

Font-Ribera A.

Freischlad G.

Frinchaboy P.

Fu H.

Chew Y.G.M.

Galbany L.

García Pérez A.E.

Garcia-Dias R.

García-Hernández D.A.

Garma Oehmichen L.A.

Gaulme P.

Gelfand J.

Gil-Marín H.

Gillespie B.A.

Goddard D.

González Hernández J.I.

Gonzalez-Perez V.

Grabowski K.

Green P.J.

Grier C.J.

Gueguen A.

Guo H.

Guy J.

Hagen A.

Hall P.

Harding P.

Hasselquist S.

Hawley S.

Hayes C.R.

Hearty F.

Hekker S.

Hernandez J.

Hernandez Toledo H.

Hogg D.W.

Holley-Bockelmann K.

Holtzman J.A.

Hou J.

Hsieh B.-C.

Hunt J.A.S.

Hutchinson T.A.

Hwang H.S.

Jimenez Angel C.E.

Johnson J.A.

Jones A.

Jönsson H.

Jullo E.

Sakil Khan F.

Kinemuchi K.

Kirkby D.

Kirkpatrick C.C.

IV

Kitaura F.-S.

Knapp G.R.

Kneib J.-P.

Kollmeier J.A.

Lacerna I.

Lane R.R.

Lang D.

Law D.R.

Le Goff J.-M.

Lee Y.-B.

Li H.

Li C.

Lian J.

Liang Y.

Lima M.

Lin L.

Long D.

Lucatello S.

Lundgren B.

MacKereth J.T.

MacLeod C.L.

Mahadevan S.

Geimba Maia M.A.

Majewski S.

Manchado A.

Maraston C.

Mariappan V.

Marques-Chaves R.

Masseron T.

Masters K.L.

McDermid R.M.

McGreer I.D.

Melendez M.

Meneses-Goytia S.

Merloni A.

Merrifield M.R.

Meszaros S.

Meza A.

Minchev I.

Minniti D.

Mueller E.-M.

Muller-Sanchez F.

Muna D.

Munõz R.R.

Myers A.D.

Nair P.

Nandra K.

Ness M.

Newman J.A.

Nichol R.C.

Nidever D.L.

Nitschelm C.

Noterdaeme P.

O'Connell J.

Oelkers R.J.

Oravetz A.

Oravetz D.

Ortíz E.A.

Osorio Y.

Pace Z.

Padilla N.

Palanque-Delabrouille N.

Palicio P.A.

Pan H.-A.

Pan K.

Parikh T.

Pâris I.

Park C.

Peirani S.

Pellejero-Ibanez M.

Penny S.

Percival W.J.

Perez-Fournon I.

Petitjean P.

Pieri M.M.

Pinsonneault M.

Pisani A.

Prada F.

Prakash A.

De Andrade Queiroz A.B.

Raddick M.J.

Raichoor A.

Rembold S.B.

Richstein H.

Riffel R.A.

Riffel R.

Rix H.-W.

Robin A.C.

Torres S.R.

Román-Zúñiga C.

Ross A.J.

Rossi G.

Ruan J.

Ruggeri R.

Ruiz J.

Salvato M.

Sánchez A.G.

Sánchez S.F.

Almeida J.S.

Sánchez-Gallego J.R.

Rojas F.A.S.

Santiago B.X.

Schiavon R.P.

Schimoia J.S.

Schlafly E.

Schlegel D.

Schneider D.P.

Schuster W.J.

Schwoppe A.

Seo H.-J.

Serenelli A.

Shen S.

Shen Y.

Shetrone M.

Shull M.

Aguirre V.S.

Simon J.D.

Skrutskie M.

Slosar A.

Smethurst R.

Smith V.

Sobeck J.

Somers G.

Souter B.J.

Souto D.

Spindler A.

Stark D.V.

Stassun K.

Steinmetz M.

Stello D.

Storchi-Bergmann T.

Streblyanska A.

Stringfellow G.S.

Suárez G.

Sun J.

Szigeti L.

Taghizadeh-Popp M.

Talbot M.S.

Tang B.

Tao C.

Tayar J.

Tembe M.

Teske J.

Thakar A.R.

Thomas D.

Tissera P.

Tojeiro R.

Tremonti C.

Troup N.W.

Urry M.

Valenzuela O.

Bosch R.V.D.

Vargas-González J.

Vargas-Maganã M.

Vazquez J.A.

Villanova S.

Vogt N.

Wake D.

Wang Y.

Weaver B.A.

Weijmans A.-M.

Weinberg D.H.

Westfall K.B.

Whelan D.G.

Wilcots E.

Wild V.

Williams R.A.

Wilson J.

Wood-Vasey W.M.

Wylezalek D.

Xiao T.

Yan R.

Yang M.

Ybarra J.E.

Yèche C.

Zakamska N.

Zamora O.

Zarrouk P.

Zasowski G.

Zhang K.

Zhao C.

Zhao G.-B.

Zheng Z.

Zhou Z.-M.

Zhu G.

Zinn J.C.

Zou H.

The fourth generation of the Sloan Digital Sky Survey (SDSS-IV) has been in operation since 2014 July. This paper describes the second data release from this phase, and the 14th from SDSS overall (making this Data Release Fourteen or DR14). This release makes the data taken by SDSS-IV in its first two years of operation (2014-2016 July) public. Like all previous SDSS releases, DR14 is cumulative, including the most recent reductions and calibrations of all data taken by SDSS since the first phase began operations in 2000. New in DR14 is the first public release of data from the extended Baryon Oscillation Spectroscopic Survey; the first data from the second phase of the Apache Point Observatory (APO) Galactic Evolution Experiment (APOGEE-2), including stellar parameter estimates from an innovative data-driven machine-learning algorithm known as "The Cannon"; and almost twice as many data cubes from the Mapping Nearby Galaxies at APO (MaNGA) survey as were in the previous release (N = 2812 in total). This paper describes the location and format of the publicly available data from the SDSS-IV surveys. We provide references to the important technical papers describing how these data have been taken (both targeting and

observation details) and processed for scientific use. The SDSS web site (www.sdss.org) has been updated for this release and provides links to data downloads, as well as tutorials and examples of data use. SDSS-IV is planning to continue to collect astronomical data until 2020 and will be followed by SDSS-V. © 2018. The American Astronomical Society..

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