The Carleson Hunt Theorem On Fourier Series

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The Carleson Hunt Theorem On
Carleson's theorem is a fundamental result in mathematical analysis establishing the pointwise almost everywhere convergence of Fourier series of L2 functions, proved by Lennart Carleson. The name is also often used to refer to the extension of the result by Richard Hunt to Lp functions for p ∈ and the analogous results for pointwise almost everywhere convergence of Fourier integrals, which can be shown to be equivalent by transference methods.

Carleson's theorem - Wikipedia
On another note, as you write, the Carleson-Hunt theorem is optimal for the exponent in L^p because of Kolmogorov's L^1 example, but there are still open questions for intermediate spaces like L log(L) (see Lacey, Carleson's theorem: proof, complements, variations).

Carleson's Theorem | The n-Category Café
The Carleson-Hunt Theorem on Fourier Series. Authors; Ole Groth Jørsboe; Leif Mejlbro; Book. 18 Citations; 1 Mentions; ... Carleson-Huntscher Satz Fourier Fourierreihe boundary element method theorem . Bibliographic information. DOI https: ...

The Carleson-Hunt Theorem on Fourier Series | SpringerLink
Because of the theorem is also referred to as the Carleson–Hunt theorem (cf. [a3], which is a profound exposition of this theorem). A few years later (than) Kolmogorov anew proved the existence of a function in L_1 whose trigonometric Fourier series diverges everywhere [a1].

Carleson theorem - Encyclopedia of Mathematics
Qifan Li - The Carleson-Hunt theorem Abstract: The Carleson's famous paper in 1966 proved that the Fourier series of square-integrable functions converges almost everywhere.

Qifan Li - The Carleson-Hunt theorem | Analysis and PDE ...
The Carleson Hunt theorem is a fundamental result in mathematical analysis. The Theorem shows that the almost everywhere pointwise convergence of the Fourier series for every f2Lp[ˇ;ˇ] for 1 <p<1: Historically, a fundamental question about Fourier series, asked by Fourier himself

THE CARLESON HUNT THEOREM - WordPress.com
The proof is immediate from the Closed Graph Theorem and the Rudin-Shapiro polynomials (if you can't find the R-S polynomials on Wikipedia lemme know and we'll fix that). Or see the section on the Hausdorff-Young inequality in Complex Made Simple for an explicit gliding-hump construction with no CGT.

fourier analysis - Carleson-Hunt Theorem on $\Bbb R ...
The proof of this theorem is based on techniques involving both spatial and frequency decompositions. These techniques are referred to as time–frequency analysis. The underlying goal is to decompose a given function at any scale as a sum of pieces perfectly localized in frequency and well localized in space.

Time–Frequency Analysis and the Carleson–Hunt Theorem ...
–––, The polynomial Carleson operator, preprint. C. Muscalu, T. Tao and C. Thiele, A Carleson theorem for a Cantor group model of the scattering transform, Nonlinearity 16 (2003), 219-246.

Demeter : A guide to Carleson's theorem
L. Carleson's celebrated theorem of 1965 asserts the pointwise conver- gence of the partial Fourier sums of square integrable functions.

Carleson's Theorem: Proof, Complements, Variations
A Note on the Carleson-Hunt Theorem. M. Trinidad Menárguez. E-mail address: tmenar@dumbo.caminos.upm.es. Departamento de Matemática Aplicada E. T. S. de Ingenieros de Caminos, Canales y Puertos Universidad Politécnica de Madrid Ciudad Universitaria 28040-Madrid Spain.

A Note on the Carleson-Hunt Theorem - Trinidad Menárguez ...
(i) (Kolmogorov, 1923) There exists such that is unbounded in for almost every . (ii) (Carleson, 1966; conjectured by Lusin, 1913) For every , converges to as for almost every . (iii) (Hunt, 1967) For every and , converges to as for almost every .

Carleson's theorem | What's new - What's new | Updates ...
A proof of boundedness of the Carleson operator. by Lacey, M. and Thiele, C. Math. Res. Lett. 7 (2000), no. 4, 361--370. The goal is to prove weak type L2 bounds for Carleson's operator. Obviously the classical references are by Carleson, Hunt, and Fefferman.

Harmonic analysis, Carleson Theorems and Multilinear Analysis
TY - JOUR AU - Oberlin, Richard AU - Seeger, Andreas AU - Tao, Terence AU - Thiele, Christoph AU - Wright, James TI - A variation norm Carleson theorem JO - Journal of the European Mathematical Society PY - 2012 PB - European Mathematical Society Publishing House VL - 014 IS - 2 SP - 421 EP - 464 AB - We strengthen the Carleson-Hunt theorem by ...

EUDML | A variation norm Carleson theorem
variational Carleson theorem only holds for r>2.Nonetheless, this method allows one to see that a variational version of the Christ-Kiselev theorem follows from a varia- tional Menshov-Paley-Zygmund theorem which we prove in Appendix B.

Introduction - UW-Madison Department of Mathematics
Generalizations of the carleson-hunt theorem I. The classical singularity case. / Xiaochun, Li; Muscalu, Camil. In: American Journal of Mathematics, Vol. 129, No. 4 ...

Generalizations of the carleson-hunt theorem I. The ...
T1 - Generalizations of the carleson-hunt theorem I. The classical singularity case. AU - Li, Xiaochun. AU - Muscalu, Camil. PY - 2007/8/1. Y1 - 2007/8/1. N2 - In this article, we prove W estimates for a general maximal operator, which extend both the classical Coifman-Meyer and Carleson-Hunt theorems in harmonic analysis.

Generalizations of the carleson-hunt theorem I. The ...
It was resolved positively in 1966 by Lennart Carleson. His result, now known as Carleson's theorem, tells the Fourier expansion of any function in L 2 converges almost everywhere. Later on, Richard Hunt generalized this to L p for any p > 1.