


 **Info**

This note [found here](#)
as a part of [a collection](#)
is written (completely with human hands) by [Rupadarshi Ray](#),
created on May 4, 2026 7:39:50 PM,
and was last modified on June 9, 2026 1:46:11 AM.

Circle packing on \mathbb{R}^2

 **Definition.** A **circle packing** is a finite collection of circles in \mathbb{R}^2 whose interior disks are disjoint and whose union is connection.

moduli

Let

$$CP(n)$$

be the moduli space of circle packings with n labeled circles in the plane.

We have a map

$$CP(n) \rightarrow \mathbf{Ord}^n(\mathbb{R}^2)$$



$$CP(n) \rightarrow \mathbf{Ord}^n(\mathbb{R}^2)$$



is a homotopy equivalence

Current note has 0 direct children and 0 total descendants.

- [stamp](#) stamp
 - [Rf](#) subobjects of and functions on $\mathbb{R}^n, T^n, S^n, \mathbb{C}^n$
 - [circle packing](#) Circle packing on \mathbb{R}^2

And it has 36 siblings.

- [stamp](#) stamp
 - [Rf](#) subobjects of and functions on $\mathbb{R}^n, T^n, S^n, \mathbb{C}^n$

- [1Hol](#) Holomorphic functions on spaces over \mathbb{C} of dimension 1
- [circle packing](#) Circle packing on \mathbb{R}^2
- [circle packing to Riemann map](#) Circle packing converges to the Riemann biholomorphism
- [Cn conn open bounded](#) Bounded connected open subsets of \mathbb{C}^n
- [Cn conn open circular](#) Connected circular open subsets of \mathbb{C}^n
- [cont](#) Continuous functions on \mathbb{R}^d
- [cube dyadic](#) Dyadic cubes
- [curves](#) Curves
- [derivative](#) Differentiable functions
- [forms](#) Differential forms on \mathbb{R}^n
- [Fourier-Wigner](#) Fourier-Wigner transform
- [harmonic composed conformal](#) Harmonic functions composed with conformal maps
- [Hilbert](#) Hilbert transform
- [hol harmonic disk-circle](#) Fourier-Cauchy-Poisson correspondence of holomorphic and harmonic functions on the unit disk and their boundary values
- [Hol sets](#) Holomorphic subsets of \mathbb{C}^n
- [hypersurf 2n reg](#) Regular hypersurfaces in \mathbb{R}^{2n}
- [hypersurf or](#) Orientable hypersurfaces in \mathbb{R}^n
- [KG](#)

$$\partial_t^2 + \sum_{i=1}^n v_i^2 \partial_{x_i}^2 + m^2$$

- [Laplace](#) Laplace operator on \mathbb{R}^n
- [Lmeas](#) Lebesgue measurable subsets of and functions on \mathbb{R}^n, T^n, S^n
- [Lmeas bd of open](#) Lebesgue measure of boundary of open sets in \mathbb{R}^n
- [met density](#) Metric density of subsets of \mathbb{R}^n
- [Mobius n-sphere](#) Mobius endomorphisms
- [monotone](#) Monotone functions on \mathbb{R}
- [periodic int Cauchy](#) Cauchy integral of periodic functions
- [poly int](#) Polygons with integer vertices
- [R 2 open smooth End](#) Open smooth maps $U \subseteq \mathbb{R}^2 \rightarrow \mathbb{C}$
- [R n discrete subg](#) Discrete subgroups of \mathbb{R}^n
- [R n discrete subg cocpt](#) Discrete cocompact subgroups of \mathbb{R}^n , flat tori
- [RC ramified germs](#) Ramified germs of smooth and holomorphic functions
- [Rn open](#) Open subsets of \mathbb{R}^n
- [Rn open Riem](#) Open subsets of \mathbb{R}^n equipped with the flat metric
- [smooth quasi-analytic](#) Quasi-analytic smooth functions on \mathbb{R}

- star shaped Star-shaped subsets of \mathbb{R}^n
- Vec ODEs in $\mathbb{R}^n \leftrightarrow$ Vector fields in \mathbb{R}^n
- wave

$$\partial_t^2 + \sum_{i=1}^n v_i^2 \partial_{x_i}^2$$

-
1. <https://pi.math.cornell.edu/~hatcher/Papers/CirclePacking.pdf> \leftrightarrow