Raddy Documentation

`Ad<const N: usize>`

- Generics
  - `N`: # dimension of **variable** (that requires derivatives).
- Notes
  - Computes on precision `f64`.

1. Constructors

1.1. `pub fn ad(value: f64) -> Ad<1>`

- Initializes a differentiated scalar.

1.2. `pub fn vec<const L: usize>(values: &[f64]) -> SVector<Ad<L>, L>`

- Initializes a differentiated vector.
- *Panics* if size mismatch.

1.3. `pub fn val(value: f64) -> Ad<1>`

- Initializes a constant scalar.

1.4. `pub fn valvec<const L: usize>(values: &[f64]) -> SVector<Ad<L>, L>`

- Initializes a constant vector.
- *Panics* if size mismatch.

2. Supports

- Elementary function (sin, cosh, exp, ln, *etc.*)
  - Does **not** support atan, please use atan2 instead.
- Norms and determinant for matrices.
- Matrix multiplication.
- SVD, although you should not use it (for some numerical problems).