

# A Bibliography of Publications of *Cleve B. Moler*

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## Abstract

This bibliography records publications of Cleve B. Moler.

**6** [Mol00a]. **6600** [DM73]. **6600/7600** [DM73].

**754** [Mol19b]. **75th** [DFM<sup>+</sup>07]. **7600** [DM73]. **77** [GWL<sup>+</sup>92].

## Title word cross-reference

$10^{435}$  [Mol95b]. **2** [Mol74].  $Ax = \lambda Bx$  [MS71].  $AXB^T + CXD^T = E$  [GWL<sup>+</sup>92, GLAM92].

**-by-** [Mol74].

**1** [Mol18b]. **128-bit** [Mol17c]. **15th** [Mol92]. **16-bit** [Mol17b]. **1978** [MS78a].

**2007** [DFM<sup>+</sup>07]. **2012** [Ano12].

**50th** [DFM<sup>+</sup>07].

**A&M** [Dut16]. **Accuracy** [DMW83]. **Accurate** [Mol67b]. **ACM** [ACM72]. **acoustics** [MS70b]. **Ada** [BBG<sup>+</sup>81]. **Affair** [CMMP95]. **Algebra** [GM87a, HM88, Mol80d, Bir80]. **Algebraic** [FM67, Joh68, FM71, Mol67b, MS78a]. **algebraische** [FM71]. **Algorithm** [GWL<sup>+</sup>92, MS73, MS78b, MS71, MS72, Mol95c, Mol01]. **algorithms** [MS78a]. **Analysis** [GO80, MM83a, Bir80, Mol68b, Mol68c, Mol69c, Mol69d, Mol83, Mol70]. **Analyst** [Hig99]. **Analytic** [LM67, MRS94]. **anniversary** [DFM<sup>+</sup>07]. **Annual** [ACM72]. **anymore** [Mol15b]. **apology** [Mol99a]. **Applications** [GM87a]. **Applied** [Bir80].

**approximate** [Efi64]. **Approximations** [FHM67]. **April** [AFI67]. **Ardent** [Mol18b]. **Arithmetic** [Mol17b, Mol17c, Mol19b, Mol19c, Mol196a]. **arrival** [DFM<sup>+</sup>07]. **Art** [DFM<sup>+</sup>07, Mol69e]. **Aspects** [CMMP95]. **Atlantic** [AFI67]. **August** [ACM72, MS78a]. **Award** [Ano11].

**B** [AF69, Bir80, Joh68]. **Back** [BBG<sup>+</sup>81a]. **basis** [MRS94]. **Bauer** [MB96, Mol15a]. **be** [GM87b]. **Beebe** [Mol79]. **Before** [Mol19b]. **Behavior** [Mol01]. **Benchmarks** [Mol94]. **Berensford** [Mol08a]. **billion** [Mol02b]. **birthday** [DFM<sup>+</sup>07, Mol92]. **bit** [Mol17b, Mol17c]. **BLAS** [Mol88b, Mol88c]. **Book** [AF69, Bir80, CMR73, Cur78, Joh68]. **Boston** [ACM72]. **boundary** [Efi64]. **Bounds** [FHM67, MP68]. **brief** [Mol18a]. **Broadwell** [GM91]. **Bug** [Mol17a]. **Building** [DGG<sup>+</sup>08]. **Bulirsch** [Mol22]. **Bunch** [Bir80]. **Burton** [Mol70].

**C** [AF69, Bir80, Cur78]. **calculations** [Efi64]. **calculator** [Mol80a, Bir80]. **can** [GM87b]. **capabilities** [Mol00b]. **CDC** [DM73]. **celebrating** [DFM<sup>+</sup>07]. **certification** [Mol63]. **certify** [BCC<sup>+</sup>72]. **chance** [Mol95a]. **Chemistry** [Mol79, MS78a]. **Christian** [Mol22]. **City** [AFI67]. **Class** [Dub83]. **Cleve** [Ano12, Joh68, Ano11, Dut16, Hai08, Hig99, Mar99, Mol94, Mol95c, Mol95b, Mol95a, Mol95d, Mol96a, Mol96b, Mol97, Mol98a, Mol98b, Mol99b, Mol99a, Mol00a, Mol00b, Mol01, Mol02a, Mol02b, Mol06b, Mol06a, Mol13, Mol14b, Mol14a, Mol15a, Mol17a, Mol17b, Mol17c, Mol18b, Mol19a, Mol19b, Mol19c, Mol22]. **Cleve.s** [Mol19d]. **Cody** [MM09]. **collaborative** [BCC<sup>+</sup>72]. **Collisionless** [GM91]. **Community** [DGG<sup>+</sup>08]. **Compact** [Bir80]. **Compilation** [BBG<sup>+</sup>81k]. **Compiling** [JM94]. **Complex** [Mol98b]. **comprehensive** [Mol68a]. **Computation** [Dub83, Mol02b, LM91, Mol00b]. **Computational** [CMMP95, DFM<sup>+</sup>07, HM88, Jam89, PAB<sup>+</sup>01, Bir80]. **Computations** [FMM77, FMM80, Mol72b, Mol86, Mol69e, Mol71, Ste68, Cur78]. **Compute** [MV78a, MV78b, MV03, MV79]. **Computed** [DMW83]. **Computer** [AFI67, Ano12, FM67, FMM77, MLB87c, FM71, FMM80, Cur78, Joh68]. **Computer-Verfahren** [FM71]. **computers** [Bir80, DM73]. **Computing** [DGG<sup>+</sup>08, DFM<sup>+</sup>07, Mol19a, Mol75, Mol83, Mol04a, Mol04b, Mol08b]. **Condition** [CMSW79]. **Conference** [ACM72, AFI67, Hea86, DFM<sup>+</sup>07]. **Conjectured** [CMR73]. **Controversial** [Mol14a]. **Converging** [Jam89]. **Corner** [Mol94, Mol95c, Mol95b, Mol95a, Mol95d, Mol96a, Mol96b, Mol97, Mol98a, Mol98b, Mol99b, Mol99a, Mol00a, Mol00b, Mol01, Mol02a, Mol02b, Mol06b, Mol06a, Mol13, Mol17a, Mol17b, Mol17c, Mol18b, Mol19a, Mol19b, Mol19c, Mol22, Mol69a, Mol14b, Mol14a, Mol15a]. **CR** [SM22]. **Craftsmanship** [Mol02a]. **Cramer** [Mol74]. **Creator** [Dut16, Hai08]. **crossing** [Mol97]. **Cryptograms** [MM83a].

**Decades** [Mol06b]. **Declarations** [BBG<sup>+</sup>81b]. **Decomposing** [MS78b]. **Dedication** [GDM87, Mol92]. **Defense** [BBG<sup>+</sup>81]. **Definite** [CMR73]. **Demonstration** [Mol82b]. **Denormals** [Mol14a]. **Department** [BBG<sup>+</sup>81]. **Dependent** [BBG<sup>+</sup>81m]. **Design** [GMS92, Mol80a]. **Development** [Cow84]. **Difference** [Mol65]. **differential** [Efi64, Mol96b, Mol97]. **Differentiation** [LM67]. **Difficulties** [Mol75]. **digital** [MS79]. **Directions** [DFM<sup>+</sup>07]. **disseminate** [BCC<sup>+</sup>72]. **Distributed** [Mol86, PPM<sup>+</sup>89, Mol01]. **Document** [BBG<sup>+</sup>81]. **Dongarra** [Bir80]. **draw** [PPM<sup>+</sup>89]. **Dubious**

[MV78a, MV78b, MV03, MV79].

**education** [PAB+01]. **Efficiencies** [Jam89]. **efficient** [MS79]. **effort** [BCC+72]. **Eigensystem** [GBDM77, SBD+76]. **Eigenvalue** [DM84, MS73, Mol79, MS71, MS72]. **Eigenvalues** [DMW83, FHM67, Mol65, MP68, Nic67, DM78, Efi64, Mol98a]. **eigenvector** [Mol02b]. **Eigenvectors** [DMW83, MP68, Efi64]. **eigshow** [Mol98a]. **EISPACK** [DM84, GBDM77, SBD+76]. **Elements** [BBG+81h]. **Elimination** [SM22]. **Elliptic** [FHM67, Nic67]. **engineering** [PAB+01]. **Equation** [GWL+92, GLAM92, Mol72a, Mol96b]. **equations** [Efi64, GM91, Mol97]. **era** [Mol02a]. **error** [DM73, Mol95a]. **Estimate** [CMSW79]. **event** [Mol97]. **examination** [Mol68a, Mol68b, Mol68c, Mol69c, Mol69d]. **Exceptions** [BBG+81c]. **Excerpts** [Mol68a]. **Experiments** [HM88, Mol11]. **explain** [Mol98a]. **Exponential** [MV78a, MV78b, MV03, Mol75, MV79]. **Expressions** [BBG+81i]. **Extension** [GBDM77, Nic67].

**factorization** [MS79]. **Fame** [Mol94]. **Faster** [Mol00a]. **Fe** [USE94]. **Features** [BBG+81m, Mol99b]. **Fernbach** [Ano11]. **FFTW** [Mol00a]. **Finding** [Jam89]. **Finite** [Mol65, Mol00a]. **First** [Mol70]. **Fitting** [Hig99]. **Five** [MV03]. **Floating** [Mol67a, Mol14b, Mol14a, Mol17a, Mol17b, Mol17c, Mol19b, Mol19c, Mol98b, Mol96a]. **floating-point** [Mol98b]. **Format** [Mol19c]. **Formulae** [Jam89]. **Forsythe** [Cur78, DFM+07, Joh68, Mol72c]. **FORTRAN** [GWL+92, Mol71, Mol72b]. **FORTRAN-77** [GWL+92]. **fortune** [Mol94]. **four** [GM91]. **Fourier** [Mol00a]. **Fox** [MS78b, Nic67]. **Friedrich** [Mol15a]. **Front** [BBG+81d]. **Function** [Mol02a, Bir80]. **Functions**

[LM67, Mol98b, Mol02a]. **Future** [DFM+07].

**G** [Bir80, Cur78]. **Gatlinburg** [MB96, Mol13]. **Gene** [DFM+07, Mol92]. **Generalized** [MS73, Mol79, MS71, MS72]. **generates** [Mol01]. **generator** [MM73]. **Generic** [BBG+81e]. **geometrical** [MS70b]. **George** [DFM+07, Joh68, Mol72c]. **German** [FM71]. **Golden** [Mol96b]. **Golub** [DFM+07, Mol92]. **Good** [Mol98a]. **Google** [Mol02b]. **got** [Mol88b, Mol88c]. **Graduate** [PAB+01]. **graphics** [PPM+89]. **groupie** [Mol07]. **Growth** [Mol06b]. **Guide** [DBMS79, GBDM77, Mol80c, Mol81, Mol82a, MLB87b, MLB87a, SBD+76, CM93, LM91, ML90, Mol18c, Bir80].

**H** [GM87a, Mol92]. **Half** [Mol17a, Mol17b, Mol19c]. **Half-Precision** [Mol17a]. **Hall** [Cur78]. **handling** [Mol97]. **Harmful** [GM87b]. **helps** [Mol98a]. **Henrici** [Bir80, Nic67]. **High** [USE94, LM91]. **high-performance** [LM91]. **Historic** [Mol18c]. **history** [Mol18a, ML20]. **Householder** [MS78b, MB96, Mol13]. **HP** [Bir80]. **hyperbolic** [Mol98b]. **Hypercube** [Hea86].

**IEEE** [Ano12, Mol96a, Mol19b]. **image** [MS79]. **Implementation** [BBG+81m, GMS92]. **Improving** [DMW83]. **Incorporates** [Mol00b, Mol00a]. **Increasing** [Mol00b]. **Industrial** [Bir80]. **Inequality** [AF69]. **infallibility** [Mol95c]. **Input** [BBG+81f]. **Input-Output** [BBG+81f]. **Insignificant** [Mol14a]. **Installation** [Mol81]. **Integrating** [MS70a]. **integration** [MS70b]. **Interactive** [Mol80b, Mol80a, Mol83]. **Interview** [Mar99]. **Introduction** [BBG+81g]. **inverse** [Mol98b]. **inversion** [Mol63]. **isn't** [Mol95d]. **Issues** [BBG+81k]. **Iterative** [Jam89, Mol67a].

**J** [AF69, Bir80]. **James** [GM87a]. **Jim** [MM09]. **John** [Bir80]. **Joint** [AFI67]. **just** [Mol15b].

**Knoxville** [Hea86].

### Laboratory

[Mol80b, Mol82b, Mol19d, Mol88a, Mol15b].

**Language** [BBG<sup>+</sup>81i]. **Languages**

[Edw09, USE94]. **LAPACK** [Mol00b].

**Laplace** [Mol65]. **large** [Mol95a, Mol99b].

**large-scale** [Mol99b]. **Largest** [Mol02b].

**Later** [MV03]. **Learning** [Mol83]. **Level**

[USE94]. **Lexical** [BBG<sup>+</sup>81h]. **libraries**

[MM09]. **library** [GMI85]. **Linear**

[FM67, GM87a, Joh68, Mol72a, Mol80d,

Bir80, FM71, Mol67b]. **lineare** [FM71].

**lines** [PPM<sup>+</sup>89]. **LINPACK**

[Bir80, DBMS79, Mol94]. **LOBO.LIB**

[GMI85]. **long** [Mol95b]. **LU** [SM22].

**Lyness** [AF69].

**M** [Cur78]. **making** [Mol95a]. **Malcolm**

[Cur78]. **Manual** [BBG<sup>+</sup>81i]. **March**

[DFM<sup>+</sup>07]. **Masinnye** [FMM80].

**matematikeskich** [FMM80]. **Math**

[Mar99, CM93]. **Mathematical**

[Cow84, Cur78, FMM77, FMM80, Hai08,

BCC<sup>+</sup>72, GMI85, Mol88a, Mol02a, MM09].

**Mathematics**

[Bir80, DFM<sup>+</sup>07, Mol19a, Mol83].

**MathWorks** [MRS94, Mol06b]. **MATLAB**

[Dut16, Edw09, GMS92, LM91, Mol80b,

Mol80c, Mol81, Mol82a, MLB87c, Mol88a,

ML90, Mol94, Mol95d, Mol96b, Mol00a,

Mol00b, Mol02a, Mol04a, Mol04b, Mol06b,

Mol08b, Mol11, Mol18a, Mol18c, ML20,

Hai08, JM94, MLB87b, MLB87a]. **Matrices**

[GMS92]. **Matrix**

[CMSW79, DM84, GBDM77, GWL<sup>+</sup>92,

GLAM92, HM88, Mol71, Mol72b, MS73,

MV78a, MV78b, Mol80b, Mol86, Mol02b,

MV03, SBD<sup>+</sup>76, DM78, Mol63, Mol69b,

Mol69e, MS71, MS72, Mol75, MS79, MV79,

Mol80a, Mol82b, Mol00b, Mol15b, CMR73].

**Matter** [BBG<sup>+</sup>81a, BBG<sup>+</sup>81d]. **Meetings**

[MB96]. **megaflops** [Mol94]. **Membrane**

[Mol18b]. **Memory**

[GM87a, Mol86, Mol72c]. **Methods**

[Cur78, Dub83, FMM77, FMM80, KMN89,

Mol65, Bir80, MS78a, Mol99b]. **metody**

[FMM80]. **Mexico** [USE94]. **minimization**

[Bir80]. **model** [Mol96a]. **Moler** [AF69,

Bir80, Cur78, Joh68, Ano11, Ano12, Dut16,

Hai08, Hig99, Mar99, Mol79, Mol19a, Nic67].

**Multiprocessors** [Mol86, Hea86].

**N** [AF69]. **NA-Net** [DGG<sup>+</sup>08]. **Names**

[BBG<sup>+</sup>81i]. **Nash** [Bir80]. **NATS** [BCC<sup>+</sup>72].

**Net** [DGG<sup>+</sup>08]. **Netlib** [DGG<sup>+</sup>08].

**Nineteen** [MV78b, MV79, MV03]. **NJ**

[AFI67]. **Normal** [Mol01]. **Normal**

[Mol01]. **Notes** [Jam89]. **Number**

[CMSW79, MM73]. **Numbers**

[Mol95a, Mol14b, Mol95e, Mol01]. **numeric**

[LM91]. **Numerical** [DFM<sup>+</sup>07, Dub83,

GO80, Hig99, KMN89, LM67, Mol69b,

Mol70, Mol80d, Mol02a, Mol04a, Mol08b,

Bir80, Mol68b, Mol68c, Mol69c, Mol69d,

MS70b, Mol83, MRS94, Mol04b, MS78a].

**Object** [Mol17a]. **Objectively** [Mol99a].

**occasion** [Mol92]. **October** [Hea86, USE94].

**ODEs** [Mol96b]. **OOPS** [Mol99a].

**Operator** [Mol65]. **Operators**

[FHM67, MP68, Nic67]. **Optimally**

[Mol99b]. **Optimization** [Mol99b]. **order**

[Mol02b]. **ordinary** [Mol96b]. **Output**

[BBG<sup>+</sup>81f].

**Package** [DM84, GWL<sup>+</sup>92]. **Packages**

[BBG<sup>+</sup>81j]. **PageRank** [Mol02b]. **pages**

[Cur78]. **Paging** [Mol72b, Mol71]. **Paper**

[Nic67]. **parallel** [Mol95d]. **partial** [Efi64].

**PC** [MLB87b]. **PC-Matlab** [MLB87b].

**Pentium** [CMMP95, Mol95a].

**performance** [LM91]. **Perspective**

[Mol15b]. **Peter** [Bir80]. **Ph.D.**

[Mol68a, Mol68b, Mol69c]. **Philadelphia** [Bir80]. **Pioneer** [Ano12, Hai08, MM09]. **Pioneering** [Hig99]. **pocket** [Bir80]. **Point** [Mol67a, Mol14b, Mol14a, Mol17a, Mol17b, Mol17c, Mol19b, Mol19c, Mol98b]. **points** [Mol96a]. **Positive** [CMR73]. **pp** [Bir80]. **pp.** [Bir80]. **Precision** [Mol17a, Mol17b, Mol17c, Mol19c]. **Prentice** [Cur78]. **Prentice/Hall** [Cur78]. **Principles** [Mol70]. **PRO** [LM91, MLB87c, ML90, MLB87a]. **PRO-MATLAB** [LM91, MLB87c, ML90, MLB87a]. **Problem** [Kah71, Mol79, MS71]. **Problems** [DM84, ML67, MS73, Mol80d, Efi64, Mol69b, MS72, Mol99b]. **procedures** [Mol63]. **Proceedings** [ACM72, Hea86, USE94]. **processing** [MS79]. **Professor** [Mol06a]. **Program** [BBG+81e, BBG+81k]. **Programming** [BBG+81l, Edw09]. **progress** [Mol04b]. **Projection** [MS78b]. **Proposed** [BBG+81l]. **Purdue** [Mol68c, Mol69d]. **Putting** [Mar99]. **Pythagorean** [Dub83, MM83b].

**QR** [Mol95c]. **Quadruple** [Mol17c]. **qualifying** [Mol68b, Mol68c, Mol69c, Mol69d]. **Quantum** [Mol79].

**R** [Bir80]. **Random** [Mol95b, MM73, Mol01]. **Rapidly** [Jam89]. **Recollections** [Mol07]. **Reference** [BBG+81l]. **Refinement** [Mol67a]. **Reinsch** [Mol22]. **rely** [Mol02a]. **Remark** [Mol63]. **Remembering** [Mol08a]. **Remembers** [MB96]. **Replacing** [MM83b]. **report** [MS78a]. **Representation** [BBG+81m]. **Research** [Mol80d]. **Response** [Mol79]. **Restores** [Mol18b]. **Review** [AF69, Bir80, CMR73, Joh68, Cur78]. **Reviews** [Mol70]. **Revisiting** [Mol98b]. **rid** [Mol88b, Mol88c]. **Roland** [Mol22]. **Roots** [Jam89, MM83b, MS70a]. **Roundoff** [DM73]. **Routines** [GBDM77, SBD+76]. **rule** [Mol74]. **Rules** [BBG+81q]. **Russian** [FMM80].

**Santa** [USE94]. **scale** [Mol99b]. **Schmidt** [CMR73]. **science** [PAB+01]. **Scientific** [DGG+08]. **Second** [Hea86]. **Sensitivity** [DM78]. **September** [Hea86]. **Short** [Jam89]. **simulations** [MRS94]. **SIMULINK** [Mol96b]. **Single** [Mol88b, Mol88c]. **Single-user** [Mol88b, Mol88c]. **Singular** [MM83a, Mol98a]. **skills** [Mol02a]. **small** [Mol95a]. **Society** [Bir80]. **Software** [Cow84, GWL+92, Hai08, KMN89, BCC+72, GMI85, LM91, MM09]. **Solution** [FM67, GLAM92, Joh68, FM71, Mol67b, Mol69b]. **solutions** [GM91]. **Solver** [Mol72a]. **solvers** [Mol96b]. **Solving** [DM84, GWL+92]. **Sons** [Bir80]. **Sources** [Cow84]. **Sparse** [GMS92]. **Speaking** [Mol99b, Mol99a]. **special** [Mol02a]. **Specifications** [BBG+81m]. **speed** [Mol00b]. **sphere** [Mol69a]. **splines** [MS70b]. **Spring** [AFI67]. **Square** [Jam89, MM83b, MS70a]. **Standard** [BBG+81l, Mol96a]. **Stanford** [DFM+07, DFM+07, Mol07]. **State** [DFM+07, Mol69e]. **Statements** [BBG+81n]. **States** [BBG+81l]. **Stewart** [Bir80]. **Striving** [Mol95c]. **Structure** [BBG+81k]. **Subject** [Mol98b]. **Subprograms** [BBG+81o]. **Sums** [Dub83, MM83b]. **Sun** [ML90]. **supercomputers** [Mol88b, Mol88c]. **survey** [Mol67b]. **SVD** [Mol06a, Mol22]. **Sylvester** [GWL+92, GLAM92]. **Symbolic** [CM93]. **Symmetric** [MP68]. **Symposia** [Mol13]. **Symposium** [USE94]. **Systeme** [FM71]. **Systems** [FM67, FM71, Mol67b, Mol74, Joh68].

**Tale** [Mol95a, Mol95e]. **Tasks** [BBG+81p]. **teaching** [Mol04b]. **Technical** [Mol15b]. **Tennessee** [Hea86]. **Tetragamma** [Mol02a].

**Texas** [Dut16]. **their** [Jam89]. **there** [Mol95a, Mol95d, Mol97]. **thoughts** [Mol95b]. **Three** [Mol80d]. **time** [Mol95b]. **Titan** [Mol18b]. **toolbox** [CM93, Mol99b]. **tools** [MRS94]. **Transforms** [Mol00a]. **trap** [Ste68]. **Tribute** [Hig99]. **trig** [Mol98b]. **Trigonometric** [AF69]. **Trigonometry** [Mol98b]. **Twenty** [MV03]. **Twenty-Five** [MV03]. **Two** [Mol95a, Mol06b, Mol95e]. **Types** [BBG<sup>+</sup>81b].

**Underflow** [GM87b]. **unifies** [Mol96a]. **United** [BBG<sup>+</sup>81l]. **Units** [BBG<sup>+</sup>81e]. **universal** [MM73]. **University** [DFM<sup>+</sup>07, Dut16, Mol68c, Mol69d]. **URAND** [MM73]. **USA** [USE94]. **Use** [MS70b]. **User** [Bir80, DBMS79, Mol80c, Mol82a, MLB87a, Mol18c, CM93, LM91, Mol88b, Mol88c, ML90]. **Users** [MLB87b].

**Value** [MM83a, Efi64]. **values** [Mol98a]. **Variable** [Mol19c]. **VAX** [LM91, MLB87c]. **VAX/VMS** [MLB87c]. **VAXBARN** [Mol18b]. **velocity** [GM91]. **Velvel** [Mol08a]. **Verfahren** [FM71]. **version** [MLB87c]. **Very** [USE94, Mol95b, Mol95a]. **VHLL** [USE94]. **Vibrating** [Mol18b]. **Vibrations** [Mol98a]. **Visibility** [BBG<sup>+</sup>81q]. **Visits** [Dut16]. **visualization** [Mol88a]. **VMS** [MLB87c]. **vycislenij** [FMM80].

**W** [Bir80, CMR73]. **Ways** [MV78a, MV78b, MV03, MV79]. **Wendroff** [Mol70]. **where** [PPM<sup>+</sup>89]. **Wiley** [Bir80]. **Wilkinson** [GM87a]. **Wins** [Ano11]. **Work** [Mar99, Mol04b]. **workshop** [MS78a]. **workstations** [ML90]. **World** [Mol02b].

**x** [Bir80].

**Years** [MV03, Mol95b]. **York** [Bir80].

**Z** [Edw09]. **Zero** [Mol97]. **Ziggurat**

[Mol01].

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