```
% The eigenbasis
                           [eigenval,eigenfun,~,NN] = domain_cartesian_dx(m,d,LL);
                              % The eigenvalues
                              lambda = eigenval(NN);
             % Solve GP with optimized hyperparameters and
             % return predictive mean and variance
             k = S(sqrt(lambda),lengthScale,magnSigma2);
             foo = diag(sqrt(k))*randn(numel(k),1);
                       f = Phi*ioo;
                                  % Evaluate Phi for the observations
                                  Phi
                                       = eigenfun(NN,x);
% The spectral density of the squared exponential covariance function
S = @(w,lengthScale,magnSigma2) ...
        magnSigma2*sqrt(2*pi)^d*lengthScale^d*exp(-w.^2*lengthScale^2/2);
```

特征值

82 VETIL C'(-W.L)